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Dissertation Abstracts

INDEX TO  
AMERICAN DOCTORAL  
DISSERTATIONS

1961-1962

UNIVERSITY MICROFILMS, INC.  
Ann Arbor, Michigan 1962









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AMERICAN DOCTORAL  
DISSERTATIONS

1961-1962

*Compiled for*  
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UNIVERSITY MICROFILMS, INC.  
Ann Arbor, Michigan 1962



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## INTRODUCTION

DISSERTATION ABSTRACTS is a monthly compilation of abstracts of doctoral dissertations submitted to University Microfilms, Inc. by more than 140 cooperating institutions. Some institutions do not send all their doctoral dissertations. Also, the various institutions began using the doctoral dissertation program at different times. For instance, some who entered the program this year decided to publish their earlier dissertations; other schools have used the program for publishing only those dissertations that were ready at the time of entry or later. Only those dissertations which are released to University Microfilms can be abstracted in DISSERTATION ABSTRACTS. Copies of the complete text may be purchased either on microfilm or as enlarged prints.

For the Subject Index, each dissertation is listed under one or more subject headings as assigned by the Library of Congress from an examination of the abstract. Headings used by the Library in its Official Catalog are assigned if an appropriate one has been established; otherwise the headings are derived from the abstract.

Arrangement. Each issue of DISSERTATION ABSTRACTS consists of a principal section, a subject index and an author index. Number 12 is issued in two parts: Part I contains the abstracts, and Part II the cumulated subject and author indexes for issues 1 through 12.

INDEX TO AMERICAN DOCTORAL DISSERTATIONS is a complete listing of all doctoral dissertations accepted by American and Canadian universities. It is compiled from commencement programs issued by the universities and the success of each issue depends on the cooperation of these universities. It includes a number of dissertations which are not included in DISSERTATION ABSTRACTS, as well as a number which will be carried in later issues. This is published on a school-year basis and is arranged by subject categories and institutions. An author index is an integral part of each publication. For further information, please write directly to University Microfilms.

During the academic year 1961-1962, 11,827 doctoral dissertations were reported by American universities. This is an increase of 1,484 over the previous academic year, and again is a record number.

A check of the doctoral degrees granted, by broad subject fields, shows that the percentage of students in the various categories remains fairly constant from year to year. A ten-year summary of degrees granted is given below:

	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Philosophy . . . . .	131	104	100	96	96	104	123	137	159	158
Religion . . . . .	206	152	138	140	159	180	184	235	202	238
Physical Sciences . . . . .	2410	2417	2397	2383	2331	2384	2833	2788	3353	3923
Earth Sciences . . . . .	227	239	232	413	231	249	285	324	725	764
Biological Sciences . . . . .	2338	2509	2480	2157	2146	2233	2084	2483	1737	1992
Social Sciences . . . . .	2520	2745	2657	2649	2576	2813	2890	2956	3145	3633
Humanities . . . . .	772	834	808	861	824	836	896	1004	1022	1119
Totals . . . . .	8,604	9,000	8,812	8,699	8,363	8,799	9,295	9,927	10,343	11,827

Table II gives a more detailed distribution.

Following the List of Current University Serial Publications Abstracting Dissertations is Table I, which details the Practices of Publication and Loan of Doctoral Dissertations. Several of the institutions listed began cooperating in the publication of microfilmed dissertations and the abstracting of these in DISSERTATION ABSTRACTS during the year. New participants in the cooperative project are:

Agricultural and Mechanical College of Texas	University of Melbourne (Australia)
Ball State Teachers College	Philadelphia College of Pharmacy and Science
Bowling Green State University	Southern California School of Theology
University of California (Berkeley and Los Angeles)	University of Southern Mississippi
Carleton University (Canada)	Westminster Theological Seminary
Kent State University	

Table III gives the distribution of doctoral degrees granted, by university and subject. By comparing the 1961-1962 interests with those of previous years, small shifts in emphasis and the beginnings of trends can sometimes be noticed.

LIST OF CURRENT UNIVERSITY SERIAL PUBLICATIONS  
ABSTRACTING DISSERTATIONS

- Agricultural and Mechanical College  
of Texas . . . . . Abstracts of dissertations for the degree of doctor of philosophy. v. 1  
(1956), 1940-55.
- University of Arkansas . . . . . Abstracts of dissertations presented in partial fulfillment of require-  
ments for the Ph.D. and Ed.D. degrees. v. 1 (1959), 1953-1958.
- Case Institute of Technology . . . . . Research at Case: projects, thesis abstracts, faculty publications.  
v. 1, 1953-
- University of Cincinnati, Teachers  
College . . . . . Abstracts: graduate theses in education. v. 1, 1927/1931.
- Clark University . . . . . Abstracts of dissertations and theses, 1929-1952; dissertations and  
theses, v. 1, 1953-
- Clemson Agricultural College . . . . . Clemson College abstracts of theses. v. 1, 1959-
- The University of Florida . . . . . Abstracts of doctoral studies in education. v. 1, 1952- (Not published  
1954.)
- The General Theological Seminary . . . Bulletin of The General Theological Seminary, June issue. v. 1, 1950-
- George Peabody College for Teachers . Abstracts of dissertations for the year \_\_\_\_.
- The George Washington University . . . Summaries of doctoral dissertations. v. 1, 1925-1928.
- Georgia Institute of Technology . . . . . Abstracts of theses (issued by Georgia Institute of Technology,  
Graduate Division). v. 1 (1953), 1950-1952.
- Illinois Institute of Technology . . . . . Publications of Illinois Institute of Technology. v. 1, 1952-
- Indiana University (School of  
Education) . . . . . Studies in education, 19-- (thesis abstract series) v. 1. 1950-
- Institute of Paper Chemistry,  
affiliated with Lawrence College . . . Abstract bulletin of the Institute of Paper Chemistry. v. 1, 1930-
- Massachusetts Institute of Technology . Abstracts of theses accepted . . . for doctors degree with a list of  
titles accepted for the engineers degree and masters degree. v. 1,  
1951-  
(Not published 1954/55, 1957/58.)
- Mississippi State University . . . . . Mississippi State University, abstracts of theses. v. 1, 1953-
- University of Missouri . . . . . Abstracts of dissertations in education. v. 1, 1938-
- New York University, School of  
Education . . . . . Abstracts of theses submitted in partial fulfillment of the requirements  
for the degree of doctor of philosophy in the School of Education of  
New York University. 1930/31-1950/51-
- S.U.N.Y., College of Ceramics at  
Alfred University . . . . . State University of New York College of Ceramics at Alfred Univer-  
sity, Alfred, N.Y. Monthly progress report. v. 1, 1958-
- S.U.N.Y., College of Forestry at  
Syracuse University . . . . . Graduate theses. v. 1 (1955), 1944-54.
- North Carolina State College . . . . . Faculty publications and research together with abstracts of doctoral  
dissertations and masters theses. v. 1 (1953), 1950-52.
- University of North Dakota . . . . . Bulletin of the University of North Dakota, the Graduate School,  
abstracts of doctoral dissertations and masters theses. v. 1, 1952-
- North Texas State University . . . . . Titles of theses and dissertations. v. 1, 1935-
- Ohio University . . . . . Abstracts of theses and dissertations. v. 1, 1939-  
(Devoted to masters theses until 1959.)
- University of Pennsylvania, School  
of Education . . . . . Studies in education: abstracts of doctoral studies. v. 1, 1944-48.
- University of Pennsylvania, School  
of Social Work . . . . . Abstracts of doctoral dissertations are published each year in the  
September issue of the *Social Service Review* published by the Univer-  
sity of Chicago Press.
- St. John's University . . . . . Abstracts of dissertations. v. 1, 1939
- St. Louis University . . . . . Publications and research in progress of faculty members and  
graduate students. (Annual report to the president.) 1946/47-
- Texas Technological College . . . . . Theses accepted by Texas Technological College. v. 1, 1956-
- University of Utah . . . . . Abstracts of doctoral dissertations. v. 1 (1959), 1947-56.
- Western Reserve University . . . . . Bibliography of publications by members of the faculties and abstracts  
of dissertations by graduate students of Western Reserve University.  
v. 1, 1947-
- University of Wyoming . . . . . University of Wyoming publications. v. 1, 1942-



# PUBLICATION, PRESERVATION AND LENDING OF AMERICAN DOCTORAL DISSERTATIONS

The Association of Research Libraries has endorsed publication by microfilm and the publication of an abstract as one means of making dissertations available to scholars and research workers. Publication practices are found in Table I.

Many of the doctoral dissertations written each year are abstracted in *Dissertation Abstracts* and reproduced in full as positive microfilm or as xerographic enlargements printed on paper. Institutions cooperating in this project are listed separately on the inside front cover of *Dissertation Abstracts*. Generally speaking, dissertations of these institutions may be secured direct from University Microfilms.

Graduate schools not requiring the publication of their dissertations will usually lend these on interlibrary loan. Inquiries for such dissertations should be addressed to the holding institution through a reference library.

TABLE I

Practices of Publication and Loan of Doctoral Dissertations, 1961-1962

University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Adelphi College . . . . .	No	No	No	2	Yes	No
Agricultural and Mechanical College of Texas . . . . .	Yes	No	Yes	2	Yes	Yes
University of Akron . . . . .	No	Yes <sup>1</sup>	No	2	No	
University of Alabama . . . . .	No	Yes <sup>1</sup>	No	2	Yes	
University of Alaska . . . . .	No	No	No	2	Yes	No
University of Alberta . . . . .	No	No	No	2	Yes	No

<sup>1</sup> Cooperates with University Microfilms, Inc., Ann Arbor, Mich. For additional information see "Introduction" in issues of *Dissertation Abstracts*.

<sup>2</sup> Except in Teachers College.

<sup>3</sup> With author's consent.

<sup>4</sup> Microfilm and typescript copies required.

<sup>5</sup> If no microfilm copy is available.

<sup>6</sup> Can usually supply microfilm copy.

<sup>7</sup> In final examination programs.

<sup>8</sup> Or microcard.

<sup>9</sup> Up to 1960, yes. Thereafter, no.

<sup>10</sup> Requires microfilm; also, Xerox or publication in scholarly journals.

<sup>11</sup> One copy only in School of Education.

<sup>12</sup> When available.

<sup>13</sup> Not always enforced.

<sup>14</sup> Photo copies are available.

<sup>15</sup> Two copies of Ed.D. dissertations.

<sup>16</sup> Two copies if not microfilmed.

<sup>17</sup> Microfilm or Xerox copies available.

<sup>18</sup> Two copies prior to 1953.

<sup>19</sup> Complete printed copies not required.

<sup>20</sup> Only for Ed.D. degree.

<sup>21</sup> Not systematically.

<sup>22</sup> Occasionally in "La Revue de l'université Laval," "Laval Théologique et Philosophique," "Archives de Folklore."

<sup>23</sup> Chemistry abstracts only.

<sup>24</sup> Prior to 1954 only.

<sup>25</sup> Prior to 1957 only.

<sup>26</sup> Multilith copies.

<sup>27</sup> Available from the Research Department.

<sup>28</sup> Prior to 1953 only.

<sup>29</sup> Accepted in addition to printing.

<sup>30</sup> One copy prior to 1962.

<sup>31</sup> Sometimes cooperates with University Microfilms, Inc. Abstracts only.

University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Alfred University . . . . .		No information received.				
The American University . . . . .	No	Yes <sup>1</sup>	No	1	No	No
University of Arizona . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes
Arizona State University . . . . .	No	Yes <sup>1</sup>	Yes	2	Yes	No
University of Arkansas . . . . .	No	Yes <sup>1</sup>	Yes	2	Yes	No
Auburn University . . . . .	No	<sup>1</sup>	No	2	Yes	No
Baylor University . . . . .	No		No	1	Yes	No
Berkeley Baptist Divinity School . . . . .	No	No	No	2	Yes	No
Bible Baptist Seminary . . . . .		No information received.				
Bob Jones University . . . . .	No		No	2	Yes	
Boston College . . . . .	No	No	No	3	Yes	No
Boston University, Graduate School . . . . .	No	No <sup>1,4</sup>	No	2	No	No
School of Education . . . . .	No	Yes <sup>1</sup>	Yes <sup>21</sup>	3	Yes	No
School of Nursing . . . . .	No	No	No	2	Yes	
School of Fine and Applied Arts . . . . .	No		Yes	2	Yes	
School of Theology . . . . .	No	Yes <sup>1</sup>	No	1	Yes	
Bradley University . . . . .	No	Yes <sup>1</sup>	No	2	Yes <sup>5</sup>	No
Brandeis University . . . . .	Yes	<sup>10</sup>	No	1	Yes	Yes
Brigham Young University . . . . .	Yes	Yes <sup>1</sup>	No	2	Yes	Yes
University of British Columbia . . . . .	No	No	No	2	Yes	No
Polytechnic Institute of Brooklyn . . . . .	No	No <sup>1</sup>	No	1	Yes	
Brown University . . . . .	No	Yes <sup>1</sup>	No	1	No	No
Bryn Mawr College . . . . .	Yes	Yes <sup>1</sup>	No	1	Yes <sup>3</sup>	Yes
The University of Buffalo . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
University of California, Berkeley . . . . .	No	No <sup>1</sup>	No <sup>7</sup>	1	No <sup>6</sup>	No <sup>6</sup>
University of California, Davis . . . . .	No	No	No	1	Yes <sup>9</sup>	No
University of California, Los Angeles . . . . .	No	Yes <sup>1</sup>	No	3	No <sup>17</sup>	No
University of California, San Francisco Medical Center . . . . .	No	Yes	No	1	No	No
California Institute of Technology . . . . .	No	No	No	2	Yes	No
Carleton University . . . . .	No		No <sup>31</sup>	3		Yes
Carnegie Institute of Technology . . . . .	Yes	No	No	2	Yes	Yes
Case Institute of Technology . . . . .	No	Yes <sup>1</sup>	Yes	2	No	
The Catholic University of America . . . . .	No	Yes <sup>1</sup>	Yes	1	No	Yes
University of Chicago . . . . .	No	Yes	No	1	No	No
Chicago Lutheran Theological Seminary . . . . .	No		No	2	Yes	
Universidad de Chile . . . . .		No information received.				
University of Cincinnati . . . . .	No	Yes <sup>1</sup>	No <sup>2</sup>	2	Yes <sup>5</sup>	Yes
The Claremont Graduate School . . . . .	No	No <sup>1</sup>	No	2	Yes	No
Clark University . . . . .	No	Yes <sup>1</sup>	Yes	1	No	No
Clemson Agricultural College . . . . .	No		Yes	1	Yes	
University of Colorado . . . . .	No	Yes <sup>1</sup>	No	1	No	No
Colorado State College . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
Colorado State University . . . . .	No	Yes <sup>1</sup>	No	2	No	
Colorado School of Mines . . . . .	No	No	No	3	Yes	No
Columbia University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes
Columbia University Teachers College . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes <sup>12</sup>
Concordia Seminary . . . . .	No	No	No	2	Yes	
University of Connecticut . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
Cornell University (including Cornell Medical College) . . . . .	No	Yes <sup>1</sup>	No	2	Yes <sup>24</sup>	No
Dallas Theological Seminary . . . . .	No	No	No	2	Yes	No
University of Delaware . . . . .	No	Yes <sup>1</sup>	No	3	Yes	No
University of Denver . . . . .	No	Yes <sup>1</sup>	No	1	Yes	
Drew University . . . . .	No	<sup>1</sup>	No	3	Yes	
Dropsie College . . . . .	Yes <sup>13</sup>	Yes	No	2	Yes	Yes
Duke University (including School of Forestry) . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes
Duquesne University . . . . .	Yes	No	Yes <sup>23</sup>	3	Yes	No
Emory University . . . . .	No	Yes <sup>1</sup>	No	2	No	No



University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Fletcher School of Law and Diplomacy . . . .	No	No	No	2	Yes	
University of Florida . . . . .	No	<sup>1</sup>	Yes <sup>20</sup>	2	Yes	No
Florida State University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
Fordham University . . . . .	No	Yes <sup>1</sup>	No	2	Yes <sup>6</sup>	Yes <sup>6</sup>
The General Theological Seminary . . . . .	No		Yes	1	Yes	
George Peabody College for Teachers . . . . .	No	Yes <sup>1</sup>	Yes	2	Yes	
The George Washington University . . . . .	No		Yes	3	Yes	
Georgetown University . . . . .	No	No	No	1	Yes	
University of Georgia . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
Georgia Institute of Technology . . . . .	No	No	Yes	3	Yes	No
Grace Theological Seminary and Grace College . . . . .			No information received.			
Hahnemann Medical College and Hospital . .			No information received.			
The Hartford Seminary Foundation . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes
Harvard University . . . . .	No	<sup>1</sup>	No	2	Yes <sup>12</sup>	Yes <sup>12</sup>
University of Hawaii . . . . .	No	No <sup>1</sup>	No	2	Yes	No
Hebrew Union College—Jewish Institute of Religion, Cincinnati . . . . .	Yes	Yes	No	2	Yes	Yes <sup>12</sup>
Hebrew Union College—Jewish Institute of Religion, Los Angeles . . . . .	No	No	No	2	Yes	
Hebrew Union College—Jewish Institute of Religion, New York . . . . .			No information received.			
University of Houston . . . . .	No	Yes <sup>1</sup>	No	1	No	
Howard University . . . . .	No	Yes <sup>1</sup>	No	1	Yes	
University of Idaho . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes
The Iliff School of Theology . . . . .	No	No	No	2	Yes	
University of Illinois (including University of Illinois at the Medical Center) . . . . .	No	Yes <sup>1</sup>	No	2	Yes <sup>5</sup>	Yes
Illinois Institute of Technology . . . . .	No	No	Yes	1	Yes	No
Indiana University, Graduate School . . . . .	Yes	Yes <sup>1</sup>	No	2	Yes	
School of Business . . . . .	No	No	No	3	Yes	No
School of Education . . . . .	Yes	Yes <sup>1</sup>	Yes	3	Yes	Yes
School of Health, Physical Education and Recreation . . . . .	No	Yes <sup>1</sup>	No	4	Yes	No
School of Music . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
The Institute of Paper Chemistry . . . . .	No	Yes <sup>1</sup>	Yes	1	Yes	No
The Institutum Divi Thomae . . . . .	No	Yes <sup>1</sup>	No	3	Yes	
State University of Iowa . . . . .	No	Yes <sup>1</sup>	No	1	No	No
Iowa State University of Science and Technology . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes
Jefferson Medical College of Philadelphia . .			No information received.			
The College of Jewish Studies . . . . .	No	Yes	No <sup>21</sup>	4	Yes	Yes
Jewish Theological Seminary of America . . .	No	No	No	1	No	Yes
The Johns Hopkins University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
University of Kansas . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes <sup>12</sup>
The University of Kansas City . . . . .	No	No	No	2	Yes	
Kansas State University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
Kent State University . . . . .	Yes	Yes <sup>1</sup>	No	2	Yes	No <sup>6</sup>
University of Kentucky . . . . .	No	Yes <sup>1</sup>	No	2	Yes <sup>6</sup>	Yes
Université Laval . . . . .	Yes	No	Yes <sup>22</sup>	3	Yes	
Lawrence College . . . . .	No	No	Yes	1	Yes	No
Lehigh University . . . . .	No	Yes <sup>1</sup>	No	1	No	No
Loma Linda University . . . . .	No	No	No	2	Yes	No
Louisiana State University . . . . .	No	<sup>1</sup>	No	1	No	No
University of Louisville . . . . .	No		No	2	Yes	
Lowell Technological Institute . . . . .	No	Yes	No	2	No <sup>14</sup>	
Loyola University . . . . .	No		No	2	Yes	Yes
University of Maine . . . . .	No	<sup>1</sup>	No	1	Yes	
Marquette University . . . . .	No	Yes <sup>1</sup>	No		No	No
University of Maryland . . . . .	No	<sup>1</sup>	No	2	Yes	

University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
University of Massachusetts . . . . .	No	No <sup>1</sup>	No	1	Yes	Yes
Massachusetts College of Pharmacy . . . . .	No	No	No	2	Yes	
Massachusetts Institute of Technology . . . . .	No	No	Yes	1	No	No
McGill University . . . . .	No		No	2	Yes <sup>3</sup>	
University of Miami . . . . .	No	No <sup>1</sup>	No	2	Yes	
University of Michigan . . . . .	No	Yes <sup>1</sup>	No	1	Yes	No
Michigan State University . . . . .	No	Yes <sup>1</sup>	No	1	Yes	Yes
Middlebury College . . . . .	No		No	1	Yes	
University of Minnesota . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
The University of Mississippi . . . . .	No	Yes <sup>1</sup>	No	1	Yes	
Mississippi State University . . . . .	No	No	Yes	2	Yes	Yes
University of Missouri . . . . .	No	Yes <sup>1</sup>	Yes <sup>20</sup>	1	No <sup>6</sup>	No
Montana State College . . . . .	No		No	2	Yes	
Montana State University . . . . .	No	Yes <sup>1</sup>	Yes <sup>21</sup>	1	No	No
The University of Nebraska (including Teachers College) . . . . .	No	Yes <sup>1</sup>	No	2	Yes <sup>5</sup>	Yes
Ner Israel Rabbinical College . . . . .	No	No	No	1	Yes	Yes
University of New Brunswick . . . . .	No		No	2	Yes <sup>12</sup>	
University of New Hampshire . . . . .	No	Yes <sup>1</sup>	No	2	No	No
University of New Mexico . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
New Mexico Highlands University . . . . .	Yes <sup>19</sup>	Yes		2	Yes	Yes <sup>19</sup>
New Mexico State University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
New Mexico Institute of Mining and Technology . . . . .	No	Yes	No	2	Yes	Yes <sup>6</sup>
New Orleans Baptist Theological Seminary . . . . .	No	No	No	2	Yes	No
New School for Social Research . . . . .	No	Yes <sup>1</sup>	No	1		
New York Law School . . . . .	No	No	No	9	Yes	No
New York Medical College . . . . .			No information received.			
New York University . . . . .	Yes	Yes <sup>1</sup>	No	2 <sup>11</sup>	Yes <sup>5</sup>	Yes
State University of New York, College of Agriculture . . . . .			(see Cornell University)			
College of Ceramics . . . . .	Yes	No <sup>1</sup>	No	1	Yes <sup>27</sup>	Yes
College of Education . . . . .			No information received.			
College of Forestry . . . . .	No		Yes	2	Yes	No
College of Home Economics . . . . .			(see Cornell University)			
College of Industrial and Labor Relations . . . . .			(see Cornell University)			
Downstate Medical Center . . . . .	No	No	No	2	Yes	No
Upstate Medical Center . . . . .			No information received.			
The University of North Carolina . . . . .	No	Yes <sup>1</sup>	No	2		
North Carolina College at Durham . . . . .	No		No	2	Yes	
North Carolina State College . . . . .	No	Yes <sup>1</sup>	Yes	1	No	No
University of North Dakota . . . . .	No	Yes	Yes	1 <sup>16</sup>	Yes	No
North Dakota State University . . . . .	No	Yes	No	2	Yes	No
North Texas State University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
Northwestern University . . . . .	No	Yes <sup>1</sup>		2	Yes <sup>28</sup>	No
University of Notre Dame . . . . .	No	Yes <sup>1</sup>	No	2-3	Yes <sup>6</sup>	Yes <sup>6</sup>
Oblate College . . . . .			No information received.			
Ohio University . . . . .	No	Yes <sup>1</sup>	Yes	2	Yes	No
The Ohio State University . . . . .	Yes	Yes <sup>1</sup>	No	2	Yes	No
The University of Oklahoma . . . . .	No	Yes <sup>1</sup>	No	1	Yes	
Oklahoma State University . . . . .	No	Yes <sup>1</sup>	Yes	2	Yes	
University of Oregon . . . . .	No	<sup>1</sup>	No	2	Yes	No
Oregon State University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	
University of the Pacific . . . . .	No	<sup>1</sup>	No	2	Yes	
Pacific School of Religion . . . . .	No	Yes <sup>1</sup>	Yes	2	Yes	
University of Pennsylvania, Graduate School . . . . .	No	Yes <sup>1</sup>	No	1	Yes	
School of Education . . . . .	No		Yes	2	Yes	
School of Social Work . . . . .	No	Yes <sup>1</sup>	No	1	Yes	
The Pennsylvania State University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	



University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Philadelphia College of Pharmacy and Science . . . . .	Yes	No <sup>29</sup>	No	1	No	No
University of Pittsburgh . . . . .	No	Yes <sup>1</sup>	No	2-3	No	No
Pittsburgh Theological Seminary . . . . .	No	No	No	2	Yes	
University of Portland . . . . .	No	No	No	3	Yes	No
Princeton Theological Seminary . . . . .	No	Yes <sup>1</sup>	No	2	No <sup>9</sup>	No
Princeton University . . . . .	No	No <sup>1</sup>	No	2	No	
Purdue University . . . . .	No	Yes <sup>1</sup>	No	1	Yes	No
Radcliffe College . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes <sup>12</sup>
University of Redlands . . . . .	No	No <sup>1</sup>	No	2	Yes	
Rensselaer Polytechnic Institute . . . . .	No	Yes <sup>1</sup>	No	1	Yes <sup>5</sup>	No
University of Rhode Island . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes <sup>12</sup>
Rice University . . . . .	No	<sup>1</sup>	No	3	Yes	
The University of Rochester . . . . .	No	No <sup>1</sup>	No	2	Yes	
The Rockefeller Institute . . . . .	Yes	No <sup>1</sup>	No	2	No <sup>26</sup>	Yes
Rutgers University . . . . .	No	Yes <sup>1</sup>	No	1	Yes	
St. Bonaventure University . . . . .	No	No	No	3	Yes	
St. John's University . . . . .	No	No	Yes	2	Yes	
St. Louis University . . . . .	No	Yes <sup>1</sup>	No	3	Yes	
St. Mary of the Lake Seminary . . . . .		No information received.				
St. Mary's Seminary and University . . . . .	Yes	No	No	3	No	Yes
San Francisco Theological Seminary . . . . .	No	No	No	2	Yes	No
Smith College . . . . .	No		No	2	Yes	Yes
University of South Carolina . . . . .	Yes	Yes <sup>1</sup>	No	2	Yes	Yes <sup>12</sup>
Medical College of South Carolina . . . . .	No		No	2	Yes	
State University of South Dakota . . . . .	No	Yes <sup>1</sup>	Yes	2	Yes	
South Dakota State College . . . . .	No	<sup>1</sup>	No	2	No	No
Southern Baptist Theological Seminary . . . . .	No	No	Yes	2	Yes	No
University of Southern California . . . . .	No	No <sup>1</sup>	No	1 <sup>15</sup>	Yes <sup>6</sup>	Yes <sup>6</sup>
Southern California School of Theology . . . . .	No	No	No	1	Yes	No
Southern Illinois University . . . . .	No	Yes <sup>1</sup>	No	2	No	No
University of Southern Mississippi . . . . .	No	Yes	No	2	Yes	
Southwestern Baptist Theological Seminary . . . . .	No	Yes	No	2	Yes	No
Springfield College . . . . .	No	Yes <sup>8</sup>	No	3	Yes	
The Staley College of the Spoken Word . . . . .		No information received.				
Stanford University . . . . .	No	No <sup>1</sup>	No	3-4	Yes <sup>5</sup>	No
Stevens Institute of Technology . . . . .	No	Yes <sup>1</sup>	No	2	No <sup>6</sup>	No
Syracuse University . . . . .	No	Yes <sup>1</sup>	No	1	Yes	No
Temple University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
The University of Tennessee . . . . .	No	No <sup>1</sup>	No	2 <sup>30</sup>	Yes	
The University of Texas . . . . .	No	No <sup>1</sup>	No	1	No	
Texas Technological College . . . . .	No	Yes <sup>1</sup>	Yes	2	Yes	
Texas Woman's University . . . . .	No		No	2	Yes	
University of Toronto . . . . .	Yes	No	No	2	Yes	No
Tufts University . . . . .	No	No	No	2	Yes	No
Tulane University . . . . .	No	Yes <sup>1</sup>	No	1	No	
University of Tulsa . . . . .	No	Yes	No	2	Yes	No
Union College and University . . . . .	No	Yes	No	2	Yes <sup>5</sup>	No
Union Theological Seminary, New York . . . . .	No	<sup>1</sup>	No	1	Yes	
Union Theological Seminary, Virginia . . . . .	No	No	No	2	Yes	Yes
U.S. Naval Postgraduate School . . . . .	No	No	No	3	Yes	No
University of Utah . . . . .	No	No <sup>1</sup>	Yes	2	Yes <sup>25</sup>	No
Utah State University . . . . .	No	Yes <sup>1</sup>	Yes	1	Yes	No
Vanderbilt University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
University of Vermont . . . . .	No	Yes	No	3	Yes	No
University of Virginia, Graduate School . . . . .	No		No	2	Yes <sup>5</sup>	
School of Education . . . . .	No	Yes	No	2	Yes	
School of Engineering . . . . .	Yes	No	No	3	Yes	No
School of Law . . . . .	Yes	No	No	1	Yes	No
Medical College of Virginia . . . . .	No	No	No	1	Yes	No

University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Virginia Polytechnic Institute . . . . .	No	Yes <sup>1</sup>	Yes	2	Yes	Yes
Washington University . . . . .	No	Yes <sup>1</sup>	No	1 <sup>18</sup>	Yes	
University of Washington . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
Washington State University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	Yes
Wayne State University . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
West Virginia University . . . . .	No	No	No	2	Yes	No
Western Reserve University . . . . .	No		Yes	2	Yes	
Westminster Theological Seminary . . . . .	No	Yes <sup>1</sup>	No	2	Yes	No
The University of Wisconsin . . . . .	No	Yes <sup>1</sup>	No	1	Yes	
Woman's Medical College of Pennsylvania . .	No	Yes	No	1	Yes	No
Woodstock College . . . . .	Yes	No	No	1	No	Yes
Worcester Polytechnic Institute . . . . .	No	No	No	2	No	No
University of Wyoming . . . . .	No	No	Yes	2	Yes	Yes
Yale University (including Yale School of Drama) . . . . .	No	No	No	2	Yes	No
Yeshiva University . . . . .	No	No <sup>1</sup>	Yes	1	Yes	Yes

#### STATISTICAL TABLES

A ten-year comparative tabulation of doctoral dissertations by subject fields is shown in Table II.

Table III gives an analysis by universities and by subjects for the current year. Such tables were compiled also for the preceding volumes in this series. In the American Council on Education's *American universities and colleges*, 3d ed. (p. 54-75) will be found similar tables for the years 1925-35.

In order to avoid misinterpretations, it must be made clear that the lists in this series are not limited to dissertations written for the Ph.D. degree, but that dissertations written for other kinds of doctoral degrees, e.g. in Education, Science, Jurisprudence, Canon Law and Theology, are also included.

#### SYMBOLS AND ABBREVIATIONS

- † Indicates dissertations accepted prior to academic year covered by this volume, but not previously reported. These titles are not counted in the statistical tables.

TABLE II  
DISTRIBUTION OF DOCTORATES FOR THE YEARS  
1953-1962

	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Philosophy . . . . .	131	104	100	96	96	104	123	137	159	158
Religion . . . . .	206	152	138	140	159	180	184	235	202	238
Astronomy . . . . .	20	18	17	24	9	23	20	16	17	32
Biophysics . . . . .							18	16	16	25
Chemistry . . . . .	1164	1169	1150	970	1016	1231	1272	1370	1425	1499
Engineering . . . . .	395	383	378	572	492	605	668	790	923	1188
Mathematics . . . . .	230	233	249	256	240	245	295	294	327	402
Metallurgy . . . . .	61	66	75	27	70	1	1	1	1	1
Physics . . . . .	540	548	528	534	504	529	560	582	645	777
Geography . . . . .	37	46	52	58	47	60	55	66	53	62
Geology . . . . .	138	130	131	145	152	162	206	228	205	205
Geophysics . . . . .	11	20	17	12	2	2	2	2	2	2
Meteorology . . . . .	15	13	6	7	24	2	2	2	2	2
Mineralogy . . . . .	9	12	8	9	8	8	16	7	17	11
Oceanography . . . . .							8	7	5	10
Paleontology . . . . .	17	17	18	6	3	3	3	3	3	3



	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Agriculture . . . . .	179	225	216	176	206	345	407	437	445	476
Anatomy . . . . .	47	42	40	35	26	31	36	31	40	41
Bacteriology . . . . .	281	329	298	189	119	134	101	97	113	107
Biochemistry . . . . .	307	322	335	307	205	4	4	4	4	4
Biology—Genetics . . . . .						160	146	196	152	198
Botany . . . . .	149	144	130	154	164	133	140	151	145	160
Entomology . . . . .	81	98	99	41	5	5	5	5	5	5
Food Technology . . . . .						31	40	39	30	28
Genetics . . . . .	60	55	65	89	124	6	6	6	6	6
Health Sciences . . . . .						56	72	152	100	126
Horticulture . . . . .	66	67	65	114	152	7	7	7	7	7
Medicine & Surgery . . . . .	69	52	65	29	46	8	8	8	8	8
Microbiology . . . . .							44	49	37	82
Pharmacology . . . . .	86	96	90	104	67	57	58	68	68	70
Physiology . . . . .	124	131	130	126	134	144	115	92	114	132
Psychology . . . . .	676	735	740	727	569	628	687	634	666	738
Public Health . . . . .	17	9	17	22	23	8	8	8	8	9
Zoology . . . . .	196	205	190	220	261	284	237	273	272	310
Anthropology . . . . .	37	53	44	44	62	48	54	63	46	86
Economics . . . . .	408	502	478	429	381	472	462	494	548	623
Education . . . . .	1371	1428	1409	1418	1333	1485	1503	1440	1554	1866
History . . . . .	263	289	254	284	330	332	354	375	393	390
Home Economics . . . . .	4	11	8	10	58	23	16	28	30	37
International Law & Relations .	28	52	49	54	59	9	9	9	9	9
Law . . . . .	12	13	13	23	22	22	14	16	17	21
Library Science . . . . .	7	3	7	14	8	19	9	22	20	11
Political Science . . . . .	196	162	167	203	141	193	226	246	248	287
Social Psychology . . . . .						44	39	76	74	75
Sociology . . . . .	194	222	228	170	182	175	213	196	215	237
Art & Archaeology . . . . .	25	31	40	33	35	10	10	10	10	10
Biography . . . . .						7	3	6	7	10
Fine Arts . . . . .						49	41	39	48	31
Folklore . . . . .						2	3	5	4	4
Journalism . . . . .						8	14	21	18	10
Language & Literature, General	9	15	10	64	183	214	264	254	309	338
Language & Literature, Classical . . . . .	28	42	36	23	24	29	24	28	39	45
Language & Literature, Linguistics . . . . .					33	59	45	56	47	64
Language & Literature, Modern					332	263	250	298	252	295
Literature, English . . . . .	342	355	345	319	11	11	11	11	11	11
Literature, Romance . . . . .	144	124	119	148	11	11	11	11	11	11
Literature, Germanic . . . . .	34	55	30	51	11	11	11	11	11	11
Literature, E. European . . . . .	14	9	17	11	11	11	11	11	11	11
Literature, Oriental . . . . .	15	24	19	26	11	11	11	11	11	11
Music . . . . .	53	62	62	84	89	96	101	138	145	132
Speech—Theater . . . . .	108	117	130	103	128	109	154	161	152	190
Totals . . . . .	8,604	9,000	8,812	8,699	8,363	8,799	9,295	9,927	10,343	11,827

<sup>1</sup> Included in Engineering.

<sup>2</sup> Included in Physics.

<sup>3</sup> Omitted as a separate field.

<sup>4</sup> Included in Chemistry.

<sup>5</sup> Included in Zoology.

<sup>6</sup> Included in Biology-Genetics.

<sup>7</sup> Included in Agriculture.

<sup>8</sup> Included in Health Sciences.

<sup>9</sup> Included in Political Science.

<sup>10</sup> Included in Fine Arts or History, Archaeology.

<sup>11</sup> Included in other branches of Language and Literature.



TABLE III  
DISTRIBUTION OF  
DOCTORATES FOR THE  
YEAR 1961-1962  
BY UNIVERSITY AND  
BY SUBJECT

[illegible]



TABLE III  
DISTRIBUTION OF  
DOCTORATES FOR THE  
YEAR 1961-1962  
(Continued)

[illegible]

[illegible]



[illegible]



TABLE III  
DISTRIBUTION OF  
DOCTORATES FOR THE  
YEAR 1961-1962  
(Continued)

[illegible]



[illegible]



TABLE III  
DISTRIBUTION OF  
DOCTORATES FOR THE  
YEAR 1961-1962  
(Continued)

[illegible]



[illegible]

# Doctoral Dissertations, 1961-1962

## AGRICULTURE

### GENERAL

#### Agricultural and Mechanical College of Texas

BULL, Don Lee. Absorption, metabolism, and distribution of DDT in the pink bollworm, *Pectonophora gossypiella* (Saund.).

HUGHES, Eugene Earl. Effects of rootplowing and aerial spraying on microclimate, soil conditions, and vegetation of mesquite areas.

KAPADIA, Zarir J. Dynamics of variation in the *Bouteloua curtipendula* (Michx.) Torr. complex with special reference to *B. Curtipendula* "var. *Cæspitosa*."

LONG, John A. The morphology, reproduction and breeding behavior of *Stenotaphrum secundatum* (Walt.) Kuntze.

MIAN, Abdul Latif. Evaluation of tetrazolium test for determining the viability and vigor of seed.

SCHUSTER, Joseph Lawrence. Composition and yields of understory vegetation in an East Texas pine-hardwood type as related to timber stand and habitat factors.

#### University of Alberta

DORMAAR, Johan Frederick. A study concerning the determination of organic phosphorus in soils.

#### University of California, Berkeley

LANDERS, JR., Roger Q. The influence of Chamise, *Adenostema fasciculatum*, on vegetation and soil along Chamise-grassland boundaries.

#### University of California, Davis

KIDO, Hiroshi. The action of some spray adjuvants on the deposit of emulsifiable concentrates.

KOTHARI, Indulal Kanaiyalal. Strength angle behavior of monodisperse systems and salinized soils.

WILSON, Lorne Graham. The effect of air flow ahead of wetting front on infiltration.

#### The University of Florida

BLAIR, Paul Titus. Market organization and practices for potatoes in the Hastings area of Florida.

CARLISLE, Victor Walter. The Genetic Relation of finer-textured horizons in some northeast Florida soils.

#### University of Georgia

CUMMINS, David Gray. The effect of gamma and neutron radiation on some chemical and physical properties of soil.

DUBEY, Hari Datta. Some studies on nitrification and denitrification in Georgia soils.

REDDY, Gangapatnam Radhakrishna. Effect of dicyandiamide on transformation, loss and plant uptake of fertilizer nitrogen from Georgia soils.

#### University of Hawaii

RIXON, Alan James. Effects of heavy applications of lime to soils derived from volcanic ash on the Humid Hilo and Hamakua Coasts, Island of Hawaii.

WALKER, James Lester. Pedogenesis of some highly ferruginous formations in Hawaii.

#### University of Illinois

AHRENS, Curtis LaVerne. A comparison of procedures for planning fertilizer use.

FLETCHER, Harry Francis. Differential effects of phosphorus fertility on soybean varieties.

HASSAN, Muhammad Amjad. An interpretation of Illinois long time fertility studies based on a modified Mitscherlich-Bray concept.

JOHN, Mathai Kunju. The distribution and transformations of soil phosphorus on differentially treated plots at the Aledo soil experiment field.

JOHNSON, Paul Richard. X-ray spectrographic analysis of loess deposits in Illinois.

JONES, Robert Lewis. Biogenetic opal in Illinois soils.

NOON, JR., Zenas Barnard. Environmental influences on changes of populations of the potato leafhopper, *Empoasca fabae*, in relation to alfalfa.

SAVAGE, Scott Maxfield. The chemistry of soil humic acids.

WILDING, Lawrence Paul. Source and distribution of sodium in solonchic soils in Illinois.

#### Iowa State University of Science and Technology

BATES, Thomas Edward. Potassium release in soils as affected by drying.

BENOIT, George Raymond. Soil surface conditions, radiation, and air movement effects on soil water evaporation.

BURNS, George Robert. Particle-size effects of water-soluble phosphate fertilizer.

CHAVERRI RODRIGUEZ, Jose Gil. Application of the solubility-product principle to the dissolution of phosphate rock.

HINESLY, Thomas Daniel. Shape of the water table where steady rainfall seepage into drains is reinforced by artesian water.

JENSEN, Creighton Randall. Oxygen diffusion through soil and roots measured with oxygen-18.

McINTOSH, Thomas Henry. Fixation of added ammonium by the clay and organic fractions of soil.

#### University of Kentucky

STEELE, Howard Loucks. The use of projection in food marketing surveys.

STOVALL, John Guy. Allocation of resources for minimum cost food production on institutional farms in Kentucky.

#### University of Michigan

DAVIS, Hugh Cuthbert. Demographic changes and resource use in the western counties of Michigan's Upper Peninsula, 1860-1950.

#### Michigan State University

BROWN, Leonard D. Hay and silage studies with dairy cattle.

FRANZMEIER, Donald Paul. A chronosequence of podzols in northern Michigan.

HURTT, Woodland. The mobility and distribution of 2, 4-dichlorophenoxyacetic acid in Canada thistle.

ISLAM, Aminul. The yield and chemical composition of soybean as affected by widely varying nutrient levels.

ST. ARNAUD, Roland J. The pedogenesis of a black-grey wooded sequence of soils in Saskatchewan, Canada.

SINGH, Hari Mohan. Correlation studies with corn using seasonal soil and tissue tests.

#### University of Minnesota

HANSON, Lyle Jay. Studies on parakeratosis and exudative dermatitis in swine.

HARPSTEAD, Milo Irving. A pedological characterization of some profiles in the gray wooded soil area of Minnesota.

JORGENSEN, Jacques Richard. Studies on the nature and occurrence of organic acids in soils.



WHITE, George Albert. Influence of certain forage grasses on the growth and yield of the following crop.

University of Missouri

SIKES, John Dale. Blood serum inorganic phosphorus in Guernsey, Holstein and Jersey cattle.

ZOELLNER, Keith Owen. A genetic study of selection for thinner backfat in swine.

North Carolina State College

COX, Frederick Russell. The effect of plant population, various fertilizers, and soil moisture on the grade and yield of peanuts.

Oregon State University

ASHCROFT, Gaylen Lamb. Gaussian elimination technique for solving the diffusion equation for moisture movement in unsaturated soil.

BEATTIE, John Alfred. Groundsurfaces and soils in the Willamette Valley, Oregon.

JAMES, David Winston. Sorption of  $\text{NH}_3$  in a dry system in relation to the chemical properties of clays and soils.

RAJAN, Thillasthanam Seshadri. The role of dihydroquercetin as an antioxidant for some dairy products.

RATARASARN, Sucheep. Heart rate patterns in beef cattle.

VACHAROTAYAN, Sorasith. Correlation of phosphorus soil tests and forms of inorganic soil phosphorus with crop response and phosphorus uptake from aiken soils.

WHEELER, Robert Roderick. Evaluation of various indicator techniques in estimating forage intake and digestibility by range cattle.

The Pennsylvania State University

EDINGTON, Everett Dewey. Abilities and characteristics of young adult dairy farmers in Pennsylvania which are associated with successful farm management.

Purdue University

AHLRICH, James L. The mechanisms of clay mineral-organic matter bonding.

AL-ABBAS, Abdul Hasan Kadhim. A soil test for phosphorus based upon fractionation of soil phosphorus.

BAILEY, George William. The effect of layer charge on the swelling characteristics of an artificially weathered muscovite.

BHAMONCHANT, Prakrit. Inheritance of head type and the association of morphological characters and straw strength in spring oats.

BROWN, Cyril Benjamin. Influence of layer charge on X-ray properties of muscovite.

CHILCOTE, David Owen. Environmental control of flowering in selected genotypes of orchardgrass (*Dactylis glomerata*).

EKLUND, Melvin Wesley. Biosynthetic responses of poultry meat organisms under stress.

GOHLKE, Arthur Frederick. The relationship between potassium fertilization and the alanine, aspartate, asparagine, glutamate and glutamine content of orchardgrass (*Dactylis glomerata* L.) Herbage.

HARTUNG, Theodore Eugene. Some factors affecting the penetration of the egg shell membrane by *Pseudomonas fluorescens*.

KANG, Biau Tjwan. Tolerance mechanisms of partial root system for salt solutions.

LANGLOIS, Bruce Edward. The free fatty acids of Purdue swiss-type cheese.

LEWIS, Glenn Charles. Chemical and mineralogical studies on slick spot soils.

MARAIS, Jean Nico. The influence of soil moisture stress localized in the fertilized zone on the uptake and translocation of phosphate by soybeans.

MILLER, Darrell Alvin. Inheritance of partial male and female fertility in *Sorghum vulgare* Pers.

MILLER, Raymond Jarvis. Viscous flow of water in clays.

SMITH, Jordan Grant. Ecological parameters of an alfalfa community under natural field conditions.

VASEY, Edfred Harry. The uptake of band and broadcast applied potassium and phosphorus by corn roots.

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WERKHOVEN, Cornelis Herman Evert. Uptake of rubidium from colloidal suspensions and their equilibrium solutions by corn.

WHITEHEAD, Wayne Lee. The breeding behavior of phenotypically diverse grain sorghum varieties in hybrid combinations.

YODER, John Menly. Laboratory studies on ensiling.

Rutgers University

BROWN, Jerry. Soils of the Northern Brooks Range, Alaska.

PÉREZ-ESCOLAR, Raúl. The soil conditioning properties of blackstrap molasses and rum distillery slops.

SOUDAH, Raja. Tetrasomic inheritance of flower color in alfalfa, *Medicago sativa* L.

Utah State University

JETHMALANI, Shampal Chuharmal. Effects of irrigation regimes, fertilization, and clipping on quality and production of pasture mixtures.

Virginia Polytechnic Institute

BROWN, Ronald Harold. Palatability and digestibility of grasses treated with Gibberellic acid.

CHIN, Wei-Tsung. Some physico-chemical and biological aspects of urea.

COOK, Maurice Gayle. Alteration of dioctahedral micas in soils.

MARTIN, John Bennett. Interrelationships of calcium and aluminum in turf species used for highways.

WARD, Coleman Younger. The role of carbohydrate reserves and leaf area in the regrowth of orchardgrass.

Washington State University

PETERSON, Frederick F. Solodized solonetz soils occurring on the uplands of the Palouse loess.

The University of Wisconsin

BRAATZ, Douglas Robert. A method to improve the storage life of frozen concentrated milk.

CASSELL, Roy Dale. The effect of supervisory training upon the reliability of two appraisal instruments in evaluating the relative job performance of county extension agents.

CARPENTER, Zerle L. Histological and physical characteristics of pork muscle and their relationship to pork quality.

DAHNIKE, William Clarence. Release of fertilizer constituents from polyethylene capsules.

FELICIANO, Gloria David. The relative effectiveness of seven methods of presenting statistical information to a general audience.

GOLDSBY, Alice Ingram. Chemical and biological factors influencing swine nematode populations.

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LEGNER, E. Fred. An ecological study of some foliage-feeding insects on young non-bearing apple trees in Wisconsin.

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MEYER, Robert Earl. A study of factors affecting the bud dormancy of quackgrass (*Agropyron repens* (L.) Beauv.)

MORTVEDT, John Jacob. The effect of manganese and copper on the growth of *Streptomyces scabies* and the incidence of potato scab.

OLSON, Gerald Walter. Morphology and genesis of fragipans in some soils in north-eastern Wisconsin.

SCHULTZ, Thomas Harold. Control of *Streptomyces scabies* in potatoes with urea formaldehyde concentrate-85.

WELKER, JR., William Valentine. Influence of the micro-environment on the herbicidal activity of monuron.

WOLF, Dale Duane. Yield, persistence, and water utilization of several legume-grass mixtures as affected by cutting frequency and nitrogen fertilization.



ANIMAL CULTURE

Agricultural and Mechanical College of Texas

ROBBINS, Joe Dennis. The effect of dietary mineral imbalance on the development of urolithiasis in fattening wethers.

University of Alberta

GRIEVE, Clarence Melross. Pelleted rations for sheep: Effects on feed consumption and utilization, volatile fatty acid production and fermentation rate in the rumen.

Auburn University

DEVI-KATRAGADDA, Vijayalakshmi. The effects of turbidity and of light on the toxicity of two rotenone formulations to the fathead minnow.

HERLICH, Harry. The serology and immunology of coccidiosis in chickens.

University of California, Davis

RAHLMANN, Donald Frederick. The effects of exogenous steroids on the pituitary, adrenal and reproductive organs of the cow.

Cornell University

CAMPBELL, Thomas Colin. Biuret and bicarbonate in the rations of ruminants—their influence on general nitrogen metabolism.

DROULISCOS, Nicholas John. An investigation of high fat milk replacers for veal production.

HARRISON, Howard Norton. Relationships between physical form of the feed, rumen capacity, and appetite in dairy cattle.

HEIDHUES, Theodor Heinrich. Accuracy of the selection index method in samples from populations with unknown parameters.

LOWREY, JR., Robert Sidney. Influence of energy level on protein utilization: description of a protein malnutrition condition in the young pig.

PARK, Robert Lynn. The value of hay pellets for beef cattle.

WENTWORTH, Richard Allan. Investigations on the calcium requirement of dairy calves.

ZEIGLER, Thomas Richard. Investigations of the dietary requirements for maximum gains of chicks fed purified-type diets containing adequate quantities of all recognized essential nutrients.

The University of Florida

HARGROVE, Don Darrell. Expressions of heterosis in beef calves.

MEACHAM, Thomas Neil. Effect of level of nitrogen on growth and reproductive physiology of young bulls and rams.

University of Georgia

MILLER, James Kincheloe. A study of zinc deficiency in the dairy calf.

NUGARA, Nugawilage Maurice St. Denis. Magnesium metabolism of chickens.

University of Illinois

GAY, Nelson. A study of purified diets and of magnesium requirement, as affected by calcium and phosphorus level, for growing lambs.

GRAVES, Charles Norman. Studies on the metabolism of bovine spermatozoa.

NICKELSON, Willis Frank. The effect of varying dietary protein and energy levels on growth and carcass characteristics of swine.

SCHAEFFLER, Wilhelm Friedrich. *Theileria cervi* infection in white-tailed deer (*Dama virginiana*) in the United States.

Iowa State University  
of Science and Technology

BARR, George Robert. Selecting young dairy bulls on differences between relatives and their contemporaries.

DAGHIR, Nuhad Joseph. Influence of vitamin B<sub>6</sub> deficiency on selected aspects of metabolism in the chick.

PUCHAL, Francisco. Blood plasma free amino acid studies in swine.

RAUN, Ned Smith. Dietary factors affecting volatile fatty acid production in the rumen.

RHODES, Robert William. Influence of nutrient additions, physical form of the ration, and interval of feeding on performance of lambs.

SUTTON, John David. Functional development of epithelial tissue of the reticulo-rumen in calves.

THEURER, Clark Brent. Influence of protein sources on performance and plasma amino acid patterns of ruminants.

VAN HORN, JR., Harold Herbert. Interrelationships of antibiotics in bloat prevention.

Kansas State University

WALKER, Garth Lawrence. The effect of implanting growing and fattening steers with diethylstilbestrol upon animal performances and anatomical development.

WARD, John Kenyon. The effect of various rations, methods of preparation, enzymes and cobalt on volatile fatty acid production in beef cattle.

YADAVA, Indrajit Singh. Studies on the rate of passage of nutrients through the bovine rumen and the rumen metabolism of C-14 labeled roughage.

University of Kentucky

HAVELKA, Joseph Frederick. Demand for dairy cows at farm and industry levels.

HUBBARD, John William. A stochastic analysis of changes in sizes and distributions of grade A dairy herds in the Louisville Milkshed, 1950-1960.

MILLER, Howard Walter. The value of new feed additives for growing-finishing swine.

Louisiana State University

GUPTA, Harish, Chandra. Biochemical and physiological properties of the cervical and uterine fluids of the cow during estrus.

WILSON, Carroll. Some factors affecting semen production in rams.

University of Maryland

KOMAREK, Ronald Joseph. Mechanistic and etiological investigations concerning legume bloat in ruminants.

KRESTENSEN, Elroy Ralph. The susceptibility of the red-banded leaf roller, *Argyrotaenia velutinana* (Walker), to TDE.

McGill University

McCULLY, Keith Allen. Zone electrophoretic studies of the proteins of avian serum and egg yolk.

Michigan State University

BIGBEE, Daniel Eugene. Some factors that affect change in weight of fresh chilled poultry.

DIETRICH, John T. Behavioral patterns in dairy cattle as affected by management.

HENRY, Wayne Edward. The anabolic response of swine to 4-hydroxy-17- $\alpha$ -methyltestosterone and relationships between chemical and physical characteristics of pork carcasses.

JOHNSON, Hugh Swaney. Comparisons between pullets housed in cages on a slatted floor and on a litter floor.

OHMS, Jack Ivan. The immunological response of the bovine and rabbit to pregnant mare serum gonadotropin.

WARD, James Britton. The effect of certain dietary ingredients upon the incidence of blood spots in chicken eggs.

University of Minnesota

BOYLAN, William John. Quantitative inheritance in mice as revealed by responses to selection.

DUKELOW, William Richard. A study of factors relating to the freezing characteristics of porcine semen.

GREELEY, Melvin G. Protein-energy interrelationships in diets of growing swine.

OLSON, William Arthur. Factors influencing the utilization of lipid materials by the dairy calf.

SINGH, Vipin Kumar. Feed additives in livestock rations. Part I: Urea in dairy rations. Part II: Use of thyroprotein in cattle nutrition.

SOLDEVILA, Manuel. Amino acid supplementation of barley diets for growing swine.



## University of Missouri

- BRINK, Marion Francis. Potassium requirement of the immature ovine.
- BROOKS, Jerry Ronald. The influence of the thyroid gland and ambient temperatures in the fertility of the mature male ovine.
- REA, John Cyrus. Studies of factors affecting performance of the fattening ovine.

## New York University

- BERGER, Harold. The host-parasite relations of *Ascaris suum goeze*, 1782 in the rabbit.

## North Carolina State College

- SMITH, James Wayland. Relation of days open and days dry to lactation production.

## The Ohio State University

- MOORE, John Edward. *In vitro* studies on the fermentation of starch by rumen bacteria.
- SPALDING, Robert Wilber. Some effects of service period and dry period on milk and butterfat production.
- WINTER, Karl Angevine. Synthesis of bacterial protein and other nitrogenous compounds from urea by cellulolytic rumen bacteria *in vitro*.

## Oklahoma State University

- BOWMAN, Gordon Herbert. Measures of leanness in swine.
- CHRISTIANS, Charles John. Factors affecting beef carcass traits.
- FURR, Richard Dale. I. Grazing behavior of range beef cows. II. Effect of different levels of supplemental winter feed upon the production of fall-calving beef cows.
- HARBERS, Leniel Henry. Rumen studies.
- OLTJEN, Robert Raymond. Purified diet studies with ruminants.
- OMTVEDT, Irvin Thomas. Some effects of genotype-environment interactions on feedlot performance and carcass traits in swine.
- RANKIN, Bobby Joe. Effect of the snorter dwarf gene on some hematological measurements in beef calves.
- SHERIHA, Giurma Masoud. Molybdenum in ruminant nutrition.
- TUMA, Harold J. The influence of age on various factors associated with beef quality.
- WELLS, Milton Ernest. The effect of method of semen collection and tranquilization on semen quality.

## Purdue University

- ALDRED, John Phillip. Climatic environmental influences on growth and fertility in the mouse.
- BLAIR, Paul V. Quantitative consequences of mating systems and selection methods.
- GOODWIN, Tommy Lee. Some factors affecting tenderness of turkey meat.

GOSSETT, William Herbert. The effect of amino acids on the utilization of urea in fattening rations for beef cattle.

HODGE, Dean Evan. Digestible energy studies with high- and low-moisture corn and cob meal, corn cobs and soy mill feed using identical twin beef calves.

JIMENEZ E., Antonio Alcides. Studies on the nutritive value of raw and cooked soybeans for growing rats and swine and their effect on fat firmness.

JUDGE, Max D. Stress effects, carcass composition, and carcass quality in lambs.

LAWLOR, Michael Joseph. A study of semi-purified rations, the iron requirement and the zinc-B vitamin interrelationships for sheep.

LOAN, Raymond Wallace. Studies of *in vitro* interference and persistent infections with hog cholera virus.

PICKETT, Richard Arden. The requirement and availability of dietary iron for young pigs.

PURKHISER, Edwin Dale. The effect of supplemental enzymes on nitrogen balance, digestibility of energy and nutrients, and on growth rate and feed efficiency of cattle.

## The Pennsylvania State University

- HOOVER, William Henry. Carbon sources for *in vitro* protein synthesis by rumen bacteria.
- SINK, John Davis. Fat deposition in swine—a critical carcass study.
- STANLEY, Richard William. Mode of action of rumen fluid cellulase(s).

## Rutgers University

- BOYNTON, Charles Hilton. Some histological and histochemical studies of the genitalia of dairy bulls as related to fertility.
- FREEDMAN, Steven Leslie. Innervation and blood vessels to the uterus of the chicken.

## Utah State University

- BORDER, Jerry R. Development of the chromic oxide indicator technique for estimating forage intake and digestibility by ruminants.
- FONNESBECK, Paul Vance. The influence of various levels of protein and phosphorus on the composition of the ruminal ingesta of sheep.
- KNIGHT, Arlin Dailey. Influences of breed-type, feed level, and sex on characteristics of the lamb carcass, and some relationships among live animal and carcass measurements.

## University of Washington

- MENASVETA, Deb. Effects of interracial hybridization on growth, mortality, and yield of rainbow trout. (*Salmo gairdneri*, Richardson).

## Washington State University

- NELSON, Francis E. Investigations on the mode of action of antibiotics in stimulating growth of chicks and turkey poults.
- WALDERN, Donald Ernest. The effect of diet on volatile fatty acid production and absorption in the bovine.

## The University of Wisconsin

- BELLOWS, Robert A. Physiological mechanisms involved in some nutritionally-induced differences in ovarian activity.
- CONNEALLY, Patrick Michael. Population genetics of cattle blood groups.
- GRATZEK, John Bernard. Characteristics of two bovine viral diarrhea agents.
- HOPKINS, JR., Leon Lorraine. Contrasting nutritional responses to vitamin E and selenium.
- KAUFFMAN, Robert Giller. Biochemical properties of pork and their relationship to quality.
- KIENHOLZ, Eldon Wesley. I. Zinc deficiency in hens. II. Energy and protein interrelationships in high energy diets for poultry.
- WHITEHAIR, Leo Anthony. Influence of intramuscular fat level on organoleptic, physical, and chemical characteristics of irradiated pork muscle.

WRIGHT, Paul Lee. Some aspects of ewe and lamb nutrition.

## University of Wyoming

- AZIM, Mohammed Yasin. Physiological response of sheep to nutritional stress.
- COMBS, Weslie. The recombination of some quantitative traits in F<sub>2</sub> sheep populations.
- STANLEY, Marion E. Live and carcass measurements as predictors of meatiness in lambs.

## FORESTRY AND WILDLIFE

## University of Arizona

- DALTON, JR., Patrick Daly. Ecology of the creosotebush *Larrea tridentata* (DC) Cov.

## University of California, Berkeley

- JOHNSON, Norman Elden. Two species on *Contarinia* (Diptera: Cecidomyiidae) infesting the cones of Douglas fir.
- McMAHON, Robert Ormond. A deductive study of difference in forest management intensity on nonindustrial forest lands.

## Colorado State University

- JOHNSON, Donald Ralph. Effects of habitat change on the food habits of rodents.



LEE, Richard. Relationship between potential insolation and the orientation of watersheds with respect to evapotranspiration.

MEIMAN, James Richard. Influence of coarse fragments on soil moisture and temperature.

Cornell University

GROSSLEIN, Marvin Darrel. Estimation of angler harvest on Oneida Lake, New York.

REGIER, Henry Abraham. Some aspects of the ecology and management of warm-water fish in New York farm ponds.

SAUNDERS, JR., Jack Kenneth. The biology of the Newfoundland lynx (*Lynx canadensis subsolanus* Bangs).

WARD, Fredrick James. Regular fluctuations in the annual abundance of Adams River race sockeye salmon and the operation of possible causal agents.

Duke University

KLAWITTER, Ralph A. Sweetgum, swamp tupelo, and water tupelo sites in a South Carolina bottomland forest.

PHARIS, Richard Persons. Effects of nitrogen and water upon some physiological conditions and growth of loblolly pine.

POST, Boyd Wallace. Effects of light, soil moisture, and mineral nutrient treatments on the growth of seedlings of certain deciduous tree species.

SOMBERG, Seymour Ira. A program for fostering the economic growth and development of the Republic of Honduras through investments in forestry.

VAIDYA, Madhu Sudan Lal. Dry matter production and nutrient accumulation in plantations of shortleaf pine.

University of Illinois

SANDERSON, Glen Charles. The reproductive cycle and related phenomena in the raccoon.

Iowa State University  
of Science and Technology

KLONGLAN, Eugene DaWayne. Ecology of pheasant production in southwestern Iowa.

Louisiana State University

HANSBROUGH, Thomas. A sociological analysis of man-caused forest fires in Louisiana.

University of Michigan

CARRANZA, Jorge. Survey of the marine fisheries and fishery resources of the Yucatan Peninsula, Mexico.

DEBYLE, Norbert Valentine. Tracing and evaluating functional root connections among siems within aspen clones.

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TWISS, JR., Robert Hamilton. An approach to the study of natural resources policy: The Porcupine Mountains controversy.

VINCENT, Robert Earl. Biogeographical and ecological factors contributing to the decline of Arctic Grayling, *Thymallus arcticus* Pallas, in Michigan and Montana.

Michigan State University

CHRISTEN, Harold Edwin. A survey of the capabilities of the Lake States' forests to support an expanding pulp and paper industry.

KEARNS, Frank W. An economic appraisal of the state forests of Michigan.

RUDERSDORF, Ward James. Canada Goose investigations in the vicinity of the W. K. Kellogg Bird Sanctuary.

SCHALLAU, Con H. An investigation of private forest landownership in the southernmost thirty-seven counties of the lower peninsula of Michigan.

SCHOMAKER, Charles Edward. Nutritional-ecological relationships affecting height growth of planted yellow-poplar (*Liriodendron tulipifera* L.) in southwestern Michigan.

SHORT, Henry Laughton. A comparison of some aspects of the nutrition of the white-tailed deer and the domestic cow.

University of Minnesota

BUTLER, Robert L. The status of the freshwater drum, *Aplodinotus grunniens rafinesque*, in the commercial fishery of the Upper Mississippi River.

CLAUSEN, Knud Erik. Studies of a hybrid birch population.

DUFFY, Patrick James Barry. Relationships between site factors and growth of lodgepole pine (*Pinus contorta* Dougl. var. *latifolia* Engelm.) in the foothills section of Alberta.

WILSON, Louis Frederick. Host and location preference for oviposition by the spruce budworm, *Choristoneura fumiferana* (Clem.) (*Lepidoptera: Tortricidae*).

University of Missouri

ROGERS, John P. The ecological effects of drought on reproduction of the lesser scaup, *Aythya affinis* (Eyton).

State University of New York, College of  
Forestry at Syracuse University

CARROLL, William Joseph. Some aspects of the *Neodiprion abietis* (Harr.) complex in Newfoundland.

CORE, Harold A. Variables affecting the formation of compression wood in plantation red pine.

GILBERT, Adrian Mortimer. Differentiation in young sugar maple, yellow birch, and paper birch stands.

MADGWICK, Herbert A. I. Studies in the growth and nutrition of *Pinus resinosa* Ait.

NASH, Andrew Joseph. A method of classifying shortleaf pine sites in Missouri.

SWITZER, George L. Some effects of nursery soil fertility on loblolly pine (*Pinus taeda* L.) planting stock.

North Carolina State College

THOMPSON, Warren Slater. Diffusion of heavy-metal salts into wood and their effect on selected wood properties.

Oregon State University

DRISCOLL, Richard Stark. Characteristics of some \*vegetation-soil units in the Juniper Zone in Central Oregon.

TUELLER, Paul Teuscher. Plant succession on two artemisia habitat types in South-eastern Oregon.

Purdue University

LENSINK, Calvin J. The history and status of sea otters in Alaska.

Rutgers University

CZAPOWSKYJ, Miroslaw Miro. Site quality of yellow poplar in relation to soil factors in the coastal plain of New Jersey.

Utah State University

CHURA, Nicholas James. Food availability and selective utilization by juvenile mallards (*Anas platyrhynchos platyrhynchos* L.) on the Bear River Migratory Bird Refuge, Utah.

ROBEL, Robert Joseph. The relationship of carp to waterfowl food plants on a western marsh.

University of Washington

LARSON, Merlyn Milfred. The effect of temperature on certain aspects of the growth of *Pinus ponderosa* seedlings.

MCNEIL, William Joh. Mortality of pink and chum salmon eggs and larvae in Southeast Alaska streams.

REUKEMA, Donald Lynn. Patterns of crown and stem growth of *Pseudotsuga menziesii* var. *Menziesii* (Mirb.) Franco as influenced by cultural and environmental variations.

TRAPPE, James Martin. *Cenococcum graniforme*—its distribution, ecology, mycorrhiza formation, and inherent variation.

The University of Wisconsin

DE VRIES, Maarten Louis. Effect of biocides on biological and chemical factors of soil fertility.

WAGNER, Fredric Hamilton. Role of weather in short-term population fluctuations of Wisconsin pheasants.



## University of Wyoming

- FISSER, Herbert G. An ecological study of the *Artemisia tripartita* subsp. *rupicola* and related shrub communities in Wyoming.

## Yale University

- BACHELARD, Eric Peter. Root physiology in *Eucalyptus Camaldulensis* Dehn. and in *Acer rubrum* L.
- BUDOWSKI, Gerardo. Studies on forest succession in Costa Rica and Panama.
- DOWDLE, Barney. Investment theory and forest management planning.
- HOADLEY, Robert Bruce. Laboratory investigation of factors affecting veneer cutting behavior.
- KENISTON, Robert Fernald. Factors affecting management decisions of small forest owners in western Oregon.
- KENNEDY, Robert William. Influence of incipient decay on the microtensile strength and related chemical properties of wood.
- LESTER, Donald Thomas. Hermaphroditism and sex expression in *Populus Tremuloides* Michx.
- MARTY, Robert Joseph. Timber investment decisions: A study of economic decision-making under uncertainty in forestry.
- WARD, Wilber Wilson. The natural pruning of red oak in relation to crown competition.
- WEETMAN, Gordon Frederick. Nitrogen relations of a black spruce (*Picea mariana*) stand subject to various treatments.

## PLANT CULTURE

## Agricultural and Mechanical College of Texas

- HUTCHISON, Donald Joseph. The cytology of the *Panicum coloratum* L. complex.
- JORDAN, Francisco L. Delayed germination in blackberry as related to pregermination treatment, permeability, physiological changes, and fruit development.
- MORGAN, Page Wesley. The interaction of ethylene and auxin in cotton and grain sorghum.
- MORTON, Howard L. Influence of temperature and relative humidity on the physiology of the mesquite seedling and the phytotoxicity and accumulation of 2,4,5-trichlorophenoxyacetic acid in its tissues.
- PIRES, Ernest Gerald. Flower induction and growth in brazos blackberry as influenced by photoperiod, light quality, and temperature.
- WHITE, Thomas Gailand. Studies of heterosis and combining ability in top and diallel crosses among primitive, foreign and cultivated American upland cottons.

- WHITENBERG, David Calvin. Studies on the sodium nutrition of cotton. I. Carbohydrate composition and distribution in the cotton plant as affected by the substitution of sodium for calcium. II. The essentiality of sodium as a nutrient element for cotton.

## University of Alberta

- DEMIRLICKAKMAK, Ahmet. The relation of seed size to loose smut infection and yield in barley.

## Auburn University

- SINGH, Deep Narian. The relationship of ear cover and some physical and chemical properties of the corn kernel to rice weevil infestation.

## University of California, Davis

- HALE, Charles Robert. Investigations on translocation in the grapevine using carbon-14-labeled carbon dioxide.
- LYONS, James Martin. Studies of mitochondria in relation to ethylene action and chilling injury in plants.
- McGLASSON, William Barry. Fruit growth in *Cucumis melo* L. var. *reticulatis* Naud. (cantaloupe) and effects of ethylene on fruit harvested at various stages of development.
- SADIK, Sidki. Flowering of cauliflower, *Brassica oleracea* Linn. var. *botrytis*, Linn., and the morphology of its curd.
- SHAH, Champaklal Bhogilal. Physiological studies on the growth responses of the sugarbeet (*Beta vulgaris*, L.) to moisture stress.
- SMITH, Orrin Ernest. Gibberellins and tuber rest in the potato (*Solanum tuberosum*, L.)
- ZUR, Benjamin. The influence of controlled soil moisture suction, relative humidity and initial salt status on chloride uptake by sunflower plants.

## Colorado State University

- GARDNER, Herbert Reed. Factors affecting the penetrating ability of plant roots.

## Cornell University

- ABDEL-AL, Zidan El-Sayed. Evaluation of some varieties and breeding lines of tomatoes (*Lycopersicon esculentum*, Mill.) in regard to leaf area and leaf efficiency and relation of partial defoliation to early and total yields, fruit size, soluble solids, leaf rolling, and blossom-end rot.
- BAKER, Donald Nelson. The effect of air temperature on the rate of photosynthesis in corn.
- BARKER, Allen Vaughan. A study of growth and chemical composition of corn plants as related to nitrogen and potassium nutrition.
- COLLIN, George Harrison. The effect of mineral nutrition and varietal characteristics on black spot susceptibility of potatoes.

- DENNA, Donald William. A study of the genetic, morphological and physiological basis of the bush and vine habit of several cucurbits.

- DOWNEY, Richard Keith. Progeny testing and the formation of synthetic varieties of alfalfa.

- EVANS, David William. Influences of oxygen and carbon dioxide in the rooting medium on the growth of seedling legumes.

- GRAY, Elmer. Genetic and cultural studies of the creeping-rooted character of alfalfa.

- HAMILTON, Herman Ashburn. Effect of monocalcium and diammonium phosphates on crop yield, and their influence on soil solution movement and characteristics when associated with different salts.

- KLIEWER, Walter Mark. The effects and interactions of various combinations of molybdenum, aluminum, manganese, phosphorous, nitrogen, calcium, hydrogen ion concentration, lime and rhizobium strain on growth, composition and nodulation of several legumes.

- LeBARON, Homer McKay. Relationships between the control of quackgrass (*Agropyron repens*) and the carbohydrate content of rhizomes.

- MacLEOD, Lloyd Beck. Effect of liming and potassium fertilization on soil solution and on yield and composition of alfalfa and orchard grass mixtures.

- PATTERSON, Richard Sheldon. Use of phosphate and di-syston for potato insect control and a study of factors which influence phosphate absorption by plants and loss in the soil.

- PILLAY, Dathathry Trichinopoly Natraj. A study of the relationship of growth substances to rest period and germination of mazzard cherry seeds *Prunus avium* L.

- ROBINSON, Richard Warren. Relation of genetic variation in manganese utilization to disease resistance in cucumbers.

- ROMANOWSKI, JR., Roman Romuald. Effect of time of harvest on yield, color development, scale retention, storage losses and firmness of the onion (*Allium cepa* L.)

- WILKENS, Walter Frederick. The isolation and identification of the lachrymogenic compound of onion.

## The University of Florida

- ABELLA, Pedro Aguilar. A study of the effects of sodium 2, 3-dichloroisobutyrate as a selective male gametocide in some vegetable crops.

- BUSBY, Joe Neil. Effects of air movement, inversions, and other external heat sources on plant and air temperatures in relation to cold and frost injury of plants.

- CHAUHAN, Karan Singh. The effect of growth regulators and environmental factors on bud and seed dormancy of *Prunus persica*.



SINGH, Kirti. Responses of bell peppers (*Capsicum annum* L.) to excision of initial flowers and fruits and fertilization with nitrogen and calcium.

University of Illinois

CARMER, Samuel Grant. Establishment and yield of alfalfa (*Medicago Sativa* L.) as influenced by band-placement of seed and fertilizer, companion crop, rate of seeding, and row spacing.

FULCHER, Charles Edward. Yield response curves of corn as affected by variables of nitrogen, plant population, and moisture supply.

GHOSHEH, Najati Saleh. Accumulation and redistribution of potassium and calcium in young apple trees.

GOSSETT, Billy Joe. Forage yields of alfalfa and birdsfoot trefoil following establishment with weed control by herbicides and mowing.

JAIN, Narendra Kumar. Dual purpose corn culture.

MISHRA, Mahesh Narain. High population corn (*Zea mays*, L.) for forage and green manure.

SABINE, John Robert. A study of energy metabolism in fed sheep, using C<sup>14</sup>-acetate.

STALLWORTH, Houston. Some effects of 2,4-dichloro-phenoxyacetic acid on sweet corn (*Zea mays rugosa* L.) with emphasis on yield, tillering, root development and exudation of electrolytes from roots and stems.

WILSON, Charles Albert. Studies related to phosphate reaction products in soils.

Iowa State University  
of Science and Technology

CALVERT, David Victor. Absorption of nitrate by corn as related to movement of nitrate and water in soil.

JENSEN, Donald Ray. Influence of soil variability on optimum soil sampling and fertilizer use.

LESSMAN, Koert James. Comparisons of methods for testing grain yield of sorghum.

WALKER, William Morgan. Yield and chemical composition of *poa pratensis* and *bromus inermis* as a function of applied nitrogen, phosphorus and potassium.

WHITE, Donald Benjamin. Stock, scion and interstem reactions in apple trees.

Kansas State University

AHUJA, Krishan Gopal. Identification and estimation of anthocyanidins in petals of rose cultivars 'Pink Coronet' and 'Happiness'.

CASADY, Alfred Jackson. The inheritance of resistance to physiologic races 1, 2 and 3 of *Sphacelotheca sorghi* in sorghum.

GUPTA, Purshottamdas Kirorilal. The occurrence of indigenous auxins and inhibitors and their effect on the germination of strawberry seed.

HUNTER, Robert Charles. Possible sources and expression of resistance to the cotton boll weevil (*Anthonomus grandis*, Boh.) among certain lines of cotton (*Gossypium* spp.).

MILLER, Frederick Leslie. Nitrogen and phosphorus effects on the properties of the stems of selected varieties of winter wheat (*Triticum aestivum* L.).

RATCLIFFE, Eldon Silvers. Native legume evaluation and comparison with introduced species.

YU, Pyung-Kyung. Growth substances in developing peach fruit.

ZECH, Arthur Conrad. Amino acid and amide content of winter wheat crowns as related to cold hardiness.

Louisiana State University

LAL, Girdhari. Influence of soil moisture status and climatic conditions on yield of sugarcane in Louisiana.

University of Maryland

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DOUMANIAN, Ara Vahan. The effect of femoral arteriovenous fistula on experimental deep venous insufficiency.

ROBERTS, Charles William. Genetic-nutritional interactions as affecting the early growth rate of chickens.

RUDOLPH, Thomas Daniel. Lammas growth and prolepsis in Jack Pine in the lake states.

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ACOSTA, Aristeo Carreon. The transfer of stem rust resistance from rye to wheat.

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PANIGRAHI, Nihar Ranjan. Estimates of heritability, dominance and genetic advance in a wheat hybrid with a semi-dwarf parent.

REDDY, Gurjal Madhava. Gene action sequence and some chemical studies in anthocyanin synthesis in maize.



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LUND, Douglas Eugene. A study of the carbon dioxide sensitivity virus of *Drosophila affinis* by intra- and interspecific injections of extracts.

MANGLITZ, George Rudolph. Biology of the sweetclover aphid, *Therioaphis riehmi* (Börner), with emphasis on resistance in sweetclover to this insect.

## The University of New Mexico

WISE, Charles Davidson. Taxonomy and ecology of fresh-water ostracods of South-Central Texas.

## New York University

BLACKWOOD, Carlton E. The effect of heterologous growth of human ovarian tumor cells in rats on the activity of aminopeptidase, trypsin-like cathepsin B, and trypsin inhibitor in various tissues of the rat.

GOLD, Kenneth. Nutrition of marine phytoplankton measured by  $C^{14}$  uptake and cell size distribution.

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LENGYEL, Peter. Use of synthetic polynucleotides in the deciphering of the genetic code.

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BERNARDO, Fernando Apelo. Chromosome elimination as related to genetical segregation frequencies in *Gossypium* amphidiploids.

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## University of North Dakota

WHEELER, Jeanette Norris. The biogeography of the arts of North Dakota.

## Northwestern University

NOSAL, Roger A. Liver development in chick embryos receiving initial or second injections of aminoguanidine sulfate after five or more days of incubation.

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## University of Notre Dame

HENECHAN, James Beyer. Effects of the microbial flora on intestinal transport.

KAACK, Sister Mary Albert. Radiation studies on bioelectric phenomena involved in synaptic transmission.

LEAHY, Sister Mary Gerald. Barriers to hybridization between *Aedes aegypti* and *Aedes albopictus* (Diptera: Culicidae).

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## Oklahoma State University

CHHEDA, Hemchand Ramjee. An analysis of hybrids with *Bothriochloa intermedia* (R. Br.) A. Camus.

## University of Oregon

HENDERSON, Vernon. Meristic characters of some populations of the silver salmon *Oncorhynchus kisutch* (Walbaum).

## Oregon State University

ENGLAND, Noah Clinton. Genetic and environmental factors influencing appetite in beef cattle and the relation of appetite to rate and efficiency of gain.

## The Pennsylvania State University

BARNES, Donald Kay. Inheritance of ovule number and pollen-tube growth in diploid alfalfa.

KELLER, JR., Edward Clarence. Genetic-environment interaction in inbred and hybrid strains of *Drosophila melanogaster*.

SANDERS, Bobby Gene. Immunogenetic studies in two trout species of the genus *Salmo*.

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## Princeton University

MAHADEVAN, Perumadom Ramaiyer. Biochemical genetics of aryl B-glucosidase of neurospora.

ZACHARIAH, Kuruvila. The development of penicillium claviforme.

## Purdue University

CHISCON, Joseph Alfred. A chromatographic study of some chlorophyll mutations in *Lycopersicon*.

CRISAN, Eli Victor. Studies of pigments produced by a thermophilic fungus *Monotropa lanuginosa* (Tsil.) Mason.

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## Rice University

WRIGHT, Kenneth A. A cytological study of the hypodermis of the parasitic nematode, *Capillaria hepatica*.

## The University of Rochester

BOECKER, Bruce B. Thorium inhalation studies.

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## The Rockefeller Institute

MINDICH, Leonard Eugene. Studies on the fractionation of the transforming principle of *Diplococcus pneumoniae*.

St. Louis University

SCHULZE, Irene Theresa. Experimental studies on dengue virus.

Stanford University

BENNETT, John Francis. Anagenesis and macroevolution.

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Vanderbilt University

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Medical College of Virginia

ANGLETON, George McClelland. A biometrical characterization of acetylcholinesterase.†

Virginia Polytechnic Institute

BALCH, Donald James. The estimates of genetics and phenotypic parameters in Columbia and Columbia X Southdale sheep.

DOMERMUTH, Charles Henry. Pleuropneumonia-like organisms.

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MORGAN, Neal Oliver. The autecology of the adult horn fly, *Haematobia irritans* (L.), (Diptera: Muscidae) on dairy cattle.

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ENGLISH, Thomas Saunders. An inquiry into distributions of planktonic fish eggs in a restricted area of Puget Sound.

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HASCHEMEYER, Audrey Elizabeth. Electric birefringence study of fibrinogen.

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University of Chicago

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Columbia University

COREY, Karin R. The use of calcium-47 and strontium-85 in diagnostic studies.

Cornell University

ROSENBERG, Barbara Hatch. Molecular studies of the replication of DNA.

Harvard University

SCHEIDER, Walter Julius. Relaxation spectra of permanent and fluctuating dipole moments.

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CHOONG, Elvin Thian-sen. Movement of moisture through a softwood (*Abies* sp.) in the hygroscopic range.

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## University of Arizona

BERKENKAMP, Bill B. Studies concerning Phytophthora root-rot of safflower (*Carthamus tinctorius* L.).

MATSUDA, Kaoru. The biosynthesis of waxes in plants.

## University of British Columbia

EIS, Slavoj. Statistical analysis of tree growth and some environmental factors of plant communities in a selected area of the coastal western hemlock zone.

## University of California, Berkeley

BARR, Charles Earl. Studies on protoplasmic streaming and sodium transport in *Nitella*.

BRANTON, Daniel. Transport and cellular localization of iron in pea plants.

EMBREE, Robert William. Developmental studies on the genus *Radiomyces*.

GRIFFIN, James Richard. Intraspecific variation in *Pinus sabiniana* Dougl.

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PABST, Marie Bertha. Flora of the Chuckanut formation of Northwestern Washington: the equisetals, filicales, and coniferales.

SMITH, Stanley Galen. Natural hybridization and taxonomy in the genus *Typha*, with particular reference to California populations.

TAYLOR, Roy Lewis. Variation and evolution in the genus *Lithophragma*.

WILSON, Brayton Fuller. Cell wall development of cambial derivatives in *Abies concolor*.

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PAOLILLO, Dominick Joseph. The developmental anatomy of Isoetes.

RANEY, Franklin Chalmers. Movement and distribution of tritiated water in plants.

SRIVASTAVA, Lalit Mohan. Secondary phloem in the Abietineae.

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## University of California, Los Angeles

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MOSQUIN, Theodore. Phylogenetic studies in *Clarkia*, section *Myxocarpa*.

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CAPON, Brian. The effect of illumination on pigment-protein associations in leaves of *Phaseolus vulgaris*.

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MILLER, Norton W. Nutritionally deficient mutants of *Marchantia polymorpha* L.

NICHOLS, Kenneth E. Action spectra studies of the formation and photosynthetic participation of phycocyanin in wild- and mutant-type cells of *Cyandium caldarium*.

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VAN ASDALL, Willard. Aspects of the ecology of *Corispermum hyssopifolium* L. on the Lake Michigan sand dunes.

## University of Cincinnati

HOLLENSEN, Raymond Hans. The genus *Blepharostoma* (hepaticae): its morphology and relationships.

## The Claremont Graduate School

ANDERSON, Loran C. Studies on *Petradoria* (Compositae): anatomy, cytology, taxonomy.

## University of Colorado

MOORE, Thomas Carrol. Physiology of flowering in peas.

VIREECK, Leslie Abram. Plant succession and soil development on gravel outwash of the Muldrow Glacier, Alaska.

## Colorado State University

HOLWAY, James Gary. Phenology of Colorado alpine plants.

## Columbia University

TZAGOLOFF, Alexander. Studies on the metabolism of sinapine in mustard plants.

## Cornell University

ARNOLD, Wilfred Niels. A study on metabolic aspects of (+) S-methyl-L-cysteine sulfoxide and related compounds in plants.

GRIERSON, JR., James Douglas. Devonian lycopods of New York State.

GUNNER, Haim Bernard. The response of *Fusarium oxysporum* f. *cubense* to its environment.

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MEYER, Eliane. The genus *Buddleia* in North America.

## Duke University

BEETHAM, Nellie May. The ecological tolerance range of the seedling stage of *Sequoia gigantea*.

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HEWLETT, John David. Internal water balance of forest trees on the Coweeta watershed.

JOHNSON, Philip Lewis. The alpine vegetation of the Beartooth Plateau in relation to cryopedological processes and patterns.

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## Emory University

MCCORMICK, J. Franklin. Effects of ionizing radiation on a natural plant community.

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## George Washington University

GENTNER, Walter Andrew. The influence of Ethyl N, N-di-n-Propylthiocarbamate (EPTC) on wax formation in cabbage.

GOLDBERG, Aaron. The genus *Melochia* in America.

## University of Illinois

DAUBS, Edwin Horace. A monograph of Lemnaceae.

GALITZ, Donald Stuart. A physiological study of the developing soybean seed radicle.

KAR, Asok Kumar. Investigation on the plasmodial membrane of the *Myxomycetes*.

## Indiana University

ENGELHARDT, Donald Wayne. A palynological study of post-glacial and interglacial deposits in Indiana.

HOFF, Victor John. An analysis of outcrossing in certain complex-heterozygous eucotheras.

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## State University of Iowa

HARTLEY, Thomas Gordon. Flora of the "Driftless Area."

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Iowa State University  
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GREEN, John Gilbert. High temperature storage of dry maize.

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WHITEHEAD, Charles William. Translocation in tomato.

## Louisiana State University

NEGI, Narendra. Effect of different oxygen tensions on sprouting of sugar cane (*Saccharum officinarum*) and nutgrass (*Cyperus rotundus*).

ROURE, Luis A. The rusts of Puerto Rico.

## University of Maryland

CARLETON, Lois Claire. Salt tolerances of *Pinus thunbergii*, *P. radiata*, *P. resinosa* and *P. taeda*.

HARE, Leonard Newlon. The effects of humidity and light on germination and tube elongation of petunia pollen *in vitro*.

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WHITE, Richard Alan. A comparative study of the tracheary elements of the ferns.

## Michigan State University

LEAK, Lee Virn. An electron microscopic analysis of the time structure of meristematic cells during the mitotic cycle in *Pisum sativum*.

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## University of Minnesota

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## University of New Hampshire

CHEN, Tseh An. The role of soil fungi and *Pratylenchus penetrans* in the development of strawberry black root rot.

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## The University of North Carolina

KIM, Won Kyum. Influences of several plant growth substances on four species of algae.

## North Carolina State College

ADAMS, David Arthur. Factors influencing vascular plant zonation in North Carolina Saltmarshes.

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## The Ohio State University

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## The University of Oklahoma

AHSHAPANEK, Don Colesto. Ecological studies on plant inhibition by *Solanum rostratum*.

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CROCKETT, Jerry Joseph. Grassland communities of the Wichita Mountains Wildlife Refuge.

WELBOURNE, JR., Frank Fitzhugh. The comparative ecology of two canyons and an upland area in west central Oklahoma.

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KECK, Darwin Wendell. The lichens of north central Oklahoma.

## University of Oregon

COHEN, Leon I. A developmental study of *Arceuthodum*.

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## Oregon State University

BHATT, Dibya Deo. Role of associated fungi in the prevention of grey mold (*Botrytis cinerea*) of strawberries.

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AL-ANI, Badry Awaid. Cytological and growth correlation in the flower bud of datura.

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#### The Pennsylvania State University

LOCKARD, John David. An investigation of the metabolic gases produced by the cultivated mushroom *Agaricus bisporus* (Lange) Sing.

#### Philadelphia College of Pharmacy and Science

BHATNAGAR, Jogeshwar Kumar. Histological studies of the genus *Lavandula*.

#### Purdue University

MINK, Gaylord Ira. Investigations on apple viruses.

SCHWEIZER, Edward Elmer. Studies on the herbicidal action of 3-amino-1, 2, 4-triazole.

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#### Radcliffe College

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#### Rutgers University

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#### Stanford University

ERNST, Wallace Roy. A comparative morphology of the papaveraceae.

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#### Syracuse University

MARSH, Leland. Studies in the genus, *Typha*.

#### The University of Tennessee

SHIELDS, Arthur Randolph. The isolated spruce and spruce-fir forests of Southwestern Virginia, a biotic study.

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ELLISON, William Lee. A systematic study of the genus *Bahia* (Compositae).

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STALLARD, William Armistead. The mitotic pattern in a root meristem.

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#### Utah State University

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#### Vanderbilt University

ROBBINS, Herbert Charles. A monographic study of the genus *Pachysandra* (Buxaceae).

#### University of Washington

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HEWITSON, Walter Milton. Comparative morphology of the *Osmundaceae*.

SAFWAT, Fuad Mohammad. The floral morphology of secamone and the evolution of the pollinating apparatus in *Asclepiadaceae*.

#### Washington State University

ETHERTON, Bud. The relationship of cell transmembrane electropotential to potassium and sodium accumulation ratios in oat and pea seedlings.

LAWS, Helene Margaret. Cytology of induced tetraploids in certain species of *Oenothera*.

OGILVIE, Robert Townley. Ecology of spruce forests on the east slope of the Rocky Mountains in Alberta.

#### The University of Wisconsin

BOSTRACK, Jack Marlin. Some effects of gibberellic acid on the growth and anatomy of some horticultural crops.

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## Harvard University

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TUMLIR, Jan. Taxes, public expenditures and the balance of payments: Germany, 1948-1958.

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HABER, Samuel. Scientific management and the progressive movement, 1910-1929.

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HADAR, Josef. Stock-flow analysis applied to consumer behavior.

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HALL, Marshall McGowan. Investment in research and development: a statistical study.

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EDUCATION

GENERAL

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DENNIS, Ronald T. A comparative study of the performance of sixth grade graduates and selected adults on a science test concerning outer space.

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RAVAL, Sushila Navnit. Principal considerations pertinent to a plan of guidance services for the senior high school grades in India.

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PUCKETT, Daniel Wayne. The status and function of the general school supervisor in selected Arkansas schools.

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OBRADOVIC, Sylvia Massenberg. Interpersonal factors in the supervisor-teacher relationship.

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CRAWFORD, Maurice L. A comparative study of basic business education in California junior and senior high schools.

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LITSINGER, Dolores Adela. The theory and method of social studies instruction at the University Elementary School, UCLA.

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#### North Texas State University

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GRAY, Clarence Jones. An evaluative study of the student personnel program for men at the University of Richmond.

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Washington State University

MANLEY, Charles A. An evaluation of the extended day program at San Fernando Valley State College.

Wayne State University

ALLEN, Archie Earl. School-district communication: a study of the superintendent's sources of information regarding school community problems.

ANGUS, Margaret Mary. An investigation of the effects of a systematic reading readiness program at the kindergarten A level.

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NEFF, Robert Hudkins. A special class program for the mentally handicapped children of West Virginia.

#### The University of Wisconsin

ANDERSEN, Dan Wayne. Patterning and stability of friendship choices of young children.

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HANEY, Richard Earl. The development and analysis of a non-verbal test of certain concepts children have of animals.

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LAYTON, George Leslie. A financial analysis and comparison of three selected public school systems in Alabama.

PASCHAL, Billy Jack. Opinions of members of boards of education in Alabama on certain selected issues during 1961.

WALKER, Joseph Clyde. A follow-up study of the effect of fiscal control on current school expenditures.

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BROWN, Alan Fergus. The differential effect of stress-inducing supervision on classroom teaching behavior.

DROLET, Jean-Yves. A study of the impact of demographic and socio-economic factors on school attendance rates in the Province of Quebec from 1901 to 1959.

ENNS, Frederick. The legal status of the Canadian Public School Board.

KEELER, Bernard Trueman. Dimensions of the leader behavior of principals, staff morale and productivity.

READY, Laurence Maxwell. The preparation needs of superintendents in large administrative units in Saskatchewan.

Von FANGE, Erich Alvin. Implications for school administration of the personality structure of educational personnel.

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BRAUND, Robert Allen. The interpersonal evaluation structure of a selected school district.

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GARNER, Henry T. A comparison of the nature and prevalence of student adjustment problems in three types of reorganized schools for young adolescents.

RAINEY, Wilburn Hanible. The effects of the property reassessment program on school finance in Arkansas.

TILLEY, Harold E. The status of the superintendent of schools in Arkansas, 1960-1961.

TREADWAY, John F. A study of certain factors associated with the quality of education in Arkansas school districts.

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BECKERS, Wilmer Henry. An evaluation of the student personnel program at the Auburn University School of Education.

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##### Boston University

PALLADINO, Joseph R. Attitudes of elementary school principals and school board members toward the elementary school.

##### Bradley University

RUTHERFORD, William Edgar. Personnel relations: A study of the selection, placement, and guidance of beginning industrial arts teachers in the California secondary schools.



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COTTRELL, Milford Chancy. A study of specific problems of school organization at the local, county, and state levels as applied to the State of Wyoming.

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- BOULTON, Donald Arthur. A proposal for a coordinated program of student financial aid at Teachers College, Columbia University.
- BOYER, Donald Norton. A survey of opinions on retirement of a selected group of retired teachers.
- BROWN, Warren Madison. Certification of school superintendents in the United States.
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- COHEN, Julius Solomon. A study of attitudes of selected employers toward hiring employable mental retardates.
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- CRAWFORD, George Mack. A plan for the improvement of science education in the county elementary schools of Maryland.
- CROCKETT, Keith Lorimer. A proposed modification of the program of the Maine School Building Authority.
- DAVIS, Donald Eugene. An index of total tax burden and the impact of federal tax severity.
- DAVIS, Martin. The utilization of state contracts by New York school districts.
- DONALD, Eleanor. The public school personnel administrator, a study of the origin, administrative status, duties and responsibilities, and trends of the position.
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- HAYTER, Jean Marie. A follow-up study of recent graduates of the baccalaureate degree program in nursing at Medical College of Virginia.
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- KLOES, Harold Ervin. A study of certain characteristics which may affect the ability of the individual states to finance a program of public education.
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- MOOTH, Adelma Evelyn. Needs of beginning college teachers of nursing and assistance that might be provided by the administrator.
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- RICH, Dick Irvin. Types of activities and expenditures for school board sponsored in-service training programs in the Metropolitan School Study Council.
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- ROWLEY, Charles DeWitt. A study of the organization, operation, and physical facilities of certain multiple classes in selected rural secondary schools in New York State.
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- VENEZIA, Arthur John. A study of the relative demand of the costs of municipal services upon the tax base in selected New York State school districts.
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- WILSON, Charles Frank. Health habits, attitudes and tension in New Jersey high school principals and American business executives.
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- BIXBY, Arthur Porter. Effect of supervision upon attitudes of teachers toward children.
- FISHER, Francis Joseph. A study of the adequacy of the administrative, supervisory, special service, health, and secretarial staff of medium-sized public high schools in Connecticut.
- IDE, Howard Wesley. An analysis of the load of non-instructional activities required of teachers in public elementary schools in Connecticut.
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- GRAVES, John Wesley. A study and evaluation of the orientation practices for first-year teachers in selected secondary schools of the state of New York.
- KEELER, Donald Sargent. A case analysis of points of conflict in school board-superintendent relationships.
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- NUCCIO, Vincent Charles. A study of pupil population growth and its effect on income and expenditures in six suburban central school districts in the capital district area of New York State, 1950-57.
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LaVIRE, Willis Alvin. The critical tasks for public junior college administrators.

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## George Peabody College for Teachers

BOLING, Edward J. Methods of objectifying the allocation of tax funds to Tennessee State colleges.

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## Harvard University

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CONE, William Henry. Development of school committee policy and administrative regulations in Longmeadow, Massachusetts.

CONROY, Vincent Faulkner. Maintenance and improvement of communications among the public agencies concerned with the Boston school study.

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GILBERT, Jerome Harold. Introduction of a multigraded developmental plan at Nikola Tesla School in Chicago, Illinois.

GRANDY, Lorenzo Munro. Development of a vocational program in fishing and vessel management at the secondary level in Gloucester, Massachusetts.

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JENNINGS, Rita Mae. Coordination of a cooperative study of the Norton, Massachusetts public schools.

KLEMER, Donald Alan. Coordination of a program of public information for a regional school district proposal (grades 9-12) in Lenox, Stockbridge, and West Stockbridge, Massachusetts.

ROBINSON, Wade Madison. Management, coordination, and evaluation of the Harvard-Lexington summer program.

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STUMPF, JR., Edwin Frank. Planning, developing and implementing a program of off-campus laboratory experiences.

WELLS, Robert Scott. Initiation of a plan and negotiating for a change in a joint contractual relationship that will establish a better organized school administrative district.

WILKINSON, Fred James. Advisement in the program of development for the prototype demonstration school of the Women's Teacher Training College in Ramallah, Jordan.

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ENGMAN, John David. School plant management for school administrators.

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- ADDINGTON, Chester Luther. A review of research in personnel administration useful in education.
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- DODSON, James Marvin. A comparative study and analysis of selected procedures in achieving desirable school legislation.
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- LISTER, Ruth. An emphasis analysis of selected films dealing with administration.
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- UNDERWOOD, Kenneth Eugene. An analysis of letters of recommendation.
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- EDEN, Donald Frank. An analysis of patterns of communication of junior high school principals in selected school systems in Iowa and Illinois.
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- BARTER, Richard Francis. School district re-organization: legal, financial, and socio-political deterrents to re-organization in the state of Maine.

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- DUNWELL, Robert R. An evaluation of Barnard's statement of administrative theory using Thompson's criteria.

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LUCAS, John Apostol. Baron Pierre de Coubertin and the formative years of the modern international Olympic movement, 1883-1896.

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BISHOP, William R. An analysis of specific biological concepts in health education textbooks concerning the use of tobacco together with determinations of the general trends in the presentation of concepts from 1931 to 1961.

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The University of Tennessee

CATON, Irma Jeanne. Influence of systematic weight training upon women's strength and performance of basic motro skills.

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GOODWIN, Luther. An evaluation of teacher education in the physical education degree program at the University of Alberta.

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The University of Wisconsin

ECKERT, Helen Margaret. Linear relationships of isometric strength to propulsive force, angular velocity and angular acceleration in the standing broad jump.

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University of Alabama

BLACKWELL, JR., Lewis Franklin. A study of factors related to performance on a group intelligence test administered visually and administered orally.

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University of Alberta

PETERS, Herbert Daniel. An experimental application of the concepts of image and plans to the counseling setting.

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BIRKEMEYER, Florence Welk. A comparative study of four methods for discovering children's interests.

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BROWN, Robert Lewis. A study of the relationship between ability ratings of art and architecture students, intelligence, and scores on two art aptitude tests.

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WALDMAN, Herman. Correlates of empathy in family life teachers.

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HENNESSY, S.J., Reverend Thomas C. A study of the changes and the permanence of the changes in religious ideals of high school students after a closed retreat.

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ALLEN, Benjamin Harrison. Development of children's stereotype of the female school teacher.

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## George Washington University

SUMNER, Morris Edward. A study of organized and professionally staffed personnel counseling and guidance programs in the five hundred largest private industrial corporations in the United States.†

## University of Georgia

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MELTON, Culbreth Young. The academic achievement of University of Georgia students as related to high school course patterns.

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## Harvard University

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## Indiana University

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FERGUSON, Marie A. Psychological group counseling with socially isolated seventh grade girls—an exploratory study.

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New York University

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SANDEFUR, Walter Scott. Education of secondary teachers in Louisiana's white public colleges.

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The Pennsylvania State University

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## St. Louis University

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Princeton University

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## Yale University

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## University of California, Berkeley

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## Colorado School of Mines

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## The Pennsylvania State University

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## The University of Texas

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## University of Utah

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## University of California, Berkeley

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## Carnegie Institute of Technology

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## Columbia University

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## Cornell University

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University of Virginia

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University of California, Berkeley

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SELLECK, Robert Earl. Estuarine mixing and exchange in South San Francisco Bay.

Case Institute of Technology

BISHOP, William Dick. Studies on the methane fermentation of calcium acetate.

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Cornell University

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The University of Florida

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State University of Iowa

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Massachusetts Institute of Technology

KETCHAM, David Leroy. Structural analysis and high temperature corrosion of cesium and zirconosilicates.

University of Michigan

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The University of North Carolina

ALLEY, Forrest Christopher. The effect of temperature and pressure on photochemical oxidant production in a Bench Scale reaction system.

Washington University

DORNBUSH, James Norman. Physiochemical removal of naturally occurring soluble trace organics from water with selected reactants.

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# FINE ARTS

Boston University

BISHOP, John Joseph. The role of the circus and crescent in 18th and 19th century British town planning.

COHEN, George Michael. A regional study of American genre painting from 1830-1880.

Bryn Mawr College

HANSON, Anne Coffin. Jacopo Della Quercia's Fonte Gaia.

MARTIN, Marianne Winter. Futurist art and theory (1909-1915).

Columbia University

MILLER, Lillian B. Art and nationality: the encouragement of the fine arts in the United States, 1790-1860.

Harvard University

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SOLOMON, Alan Robert. Pablo Picasso: symbolism in the synthetic cubist still life. A study of his iconography from 1911-1927.

YOUNG, Martie Wing. The paintings of Ch'iu Ying: a preliminary survey.

University of Minnesota

PETERSON, Frederick William. Primitivism in modern American art.

New York University

BERENDSEN, Olga. The Italian sixteenth and seventeenth century catafalques.

BREZINA, Augustine John. Experimental sculptural constructions: a study of concepts, materials, methods, and techniques involved in creating abstract sculpture.

GURDUS, Luba. The self-portrait in French painting from neo-classicism to realism.

KNEE, Sidney Max. Art appreciation for the fifth and sixth grades.

NYBERG, Dorothea. Michel de Frémin, mémoires critiques d'architecture: a clue to the architectural taste of eighteenth century France.

POSNER, Donald. The Roman style of Annibale Carracci and his school.

PROKOPOFF, Stephen Stephen. The integration of certain ideas of form derived from Chinese painting into a series of contemporary paintings and drawings.

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SCHWARTZ, Fred Robert. The roles and responsibilities of the art specialist in the elementary school.



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QUERA, Leon Neal. Persistent principles in Japanese architecture.

TRANK, Lynn Edgar. An exhibition of paintings accompanied by a commentary on painting instruction in five institutions of higher learning.

## Princeton University

CAMPBELL, Malcolm John. The frescoes of Pietro da Cortona in the Palazzo Pitti and related problems.

PHILLIPS, Kyle Meredith. The Barberini mosaic sunt hominum animaliumque complures imagines.

STEEFEL, Lawrence D. The position of La mariée mise à nu par ses célibataires, même (1915-1923) in the stylistic and iconographic development of the art of Marcel Duchamp.

## Radcliffe College

ARB, Renée Marie. The young Correggio: an analysis of the artistic formation of Antonio Allegri.

## Stanford University

ANDERSON, Warren Harold. Social reality as a possible prepotent influence in establishing preferences for paintings.

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## Syracuse University

ENGEL, Martin. Ambiguity in the 20th century.

## Western Reserve University

GARNSEY, Clarke Henderson. Early XIX century residences in central Cuba: the Trinitarian style.

## Yale University

COLLIER, Margaret. The Sagrario of Lorenzo Rodriguez: origins of the eighteenth-century architectural style in Mexico.

DeCASO, Jacques. La sculpture en France du Néoclassicisme à Rodin.

## FOLKLORE

## University of California, Los Angeles

GRANGER, Byrd Howell. The talk of the place: Folk history of place names and legends of places in Arizona.

## Indiana University

BUCKLEY, Bruce Redfern. Frankie and her men: a study of the interrelationships of popular and folk traditions.

DUNDES, Alan. The morphology of North American Indian folktales.

## New York University

MADDEN, Dorothy Gifford. Always the sea—selected traditions of Martha's Vineyard presented in dance.

## FOOD TECHNOLOGY

## University of California, Davis

REGIER, Lloyd Wesley. Chemical and physical changes during storage of freeze-dried beef.

SMITH, Grafton John Fowler. Mechanisms of lipid peroxidation in milk and model systems.

## University of Illinois

ALLEN, Lyle. The development and evaluation of corn carbohydrate coatings for foods.

COLMEY, John Campbell. The electrophoretic properties of the proteins in cottage cheese curd.

LARSON, Robert Wallace. The effect of several operational variables on the rate of freeze-drying of beef.

RAO, Murty Bhimasena. The effect of heat upon the turbidity and absorption spectra of skim milk.

## University of Maryland

BAUMGARDNER, Reginald Andrew. The relation of pectic substances to firmness of processed sweet potatoes.

COOLER, Frederick William. Rheological studies with canned tomato juice.

## University of Massachusetts

FULLER, Gordon William. Studies on the mode of spoilage of prepeeled potatoes.

## Massachusetts Institute of Technology

DUNCAN, JR., Douglas Wallace. Effect of environmental and physiological conditions on the growth of psychrophilic bacteria.

HOFF, Johan Eduard. Investigation of the acid-soluble organic phosphates in cow's milk.

ISSENBERG, Phillip. Investigation of the volatile components of the banana.

## Michigan State University

EMERSON, John Andrew. Effect of slaughter weight upon the processing characteristics, quality and consumer acceptability of pork carcasses and cuts.

GNAEDINGER, Richard Henry. Estimation of density of live pigs by air displacement and helium dilution procedures.

MACNEIL, Joseph H. A calorimetric and histological method for studying freezing rates in turkeys.

MERRILL, Everett Perkins. Detergency of chlorinated trisodium phosphate on milk protein soils from stainless steel and glass.

SILVESTRINI, Denny Angelo. Some physical and chemical aspects of mottled egg yolks.

## North Carolina State College

OCKERMAN, Herbert Wood. Separation and identification of volatile chemical compounds in dry-cured hams.

WOODS, Alvin Edwin. Studies on the volatile carbonyl compounds in ladine clover and their influence on the flavor of milk.

## The Ohio State University

DeWEESE, Duane Gray. The effect of processing methods on the quality of puréed snap beans (*Phaseolus vulgaris*).

SEMMELMAN, Jack. Factors affecting the stability of tomato juice fortified with ascorbic acid.

## The Pennsylvania State University

HO, Genevieve Po-Ai. Factors affecting adaptation to American dietary pattern by students from the oriental countries.

## Rutgers University

BOLAFFI, André. Heat inactivation and reactivation of bovine liver catalase and catalase in asparagus extract.

FERREN, William P. Determination of autoxidation and phase changes in fats and oils by means of low resolution nuclear magnetic measurements, visible spectroscopy, and other analytical methods.

JOFFE, Frederick Martin. Kinetics and energetics of thermal inactivation and the regeneration rates of a peroxidase system.

MHATRE, Nagesh Shamrao. Effects of small electric currents upon the heat-induced changes in milk proteins and salt systems.

## University of Toronto

RADOMSKI, Manny Walter. The fine structure of starch explored by physico- and biochemical procedures.

## Utah State University

DHALIWAL, Amrik Singh. Post-harvest storage studies with selected fruits.



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- BENNETT, Iven. The climatology of insolation in the intermontane basins and plateaus of the western United States.

## University of California, Berkeley

- URQUHART, Alvin Willard. Patterns of settlement and subsistence in Southwestern Angola.

## University of California, Los Angeles

- BUFORD, Joseph Calvin. Some aspects of the cultural geography of Little Egypt, Illinois.
- FIELDING, Gordon John. Dairying in the Los Angeles milkshed: factors affecting character and location.

## University of Chicago

- BOXER, Baruch. Ocean shipping in the evolution of Hong Kong.
- BURTON, Ian. Types of agricultural occupation of flood plains in the United States.
- CLARK, Stewart Alan. Illinois shortline railroads: 1840-1962.
- FIELD, Richard Treadwell. The eddy heat flux over a small lake by the eddy correlation method.
- SCHNEIDER, Richard Lawrence. The seasonality of floods in the United States.
- SIMMONS, James William. Relationships between the population density pattern and the site of cities.
- TROTTER, John E. State park system in Illinois.
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## Clark University

- HUCK, Susan Lillie Marie. British Honduras: an evaluation.
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## Columbia University

- LANCASTER, Jane. Mineral resources and industries of the Northwestern Canadian Shield.

## Columbia University Teachers College

- WEBER, Charles Edwin. The community development program in India: a study of the geographic relationships affecting community development in Sonapat.

## The University of Connecticut

- BILLINGHAM, JR., William Edward. A comparison of the knowledge of geographic terms exhibited by teachers of the middle grades.

## The University of Florida

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- AHRENS, Thomas Julian. An ultrasonic interferometer for high-pressure research with results for selected solids.
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## Rice University

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University of Wyoming

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University of California, Berkeley

MARASCUILD, Leonard Anthony. Statistical problems in standardization and selection of optimum doses of tuberculin.

The Catholic University of America

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Syracuse University

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The University of North Carolina

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## NURSING

Boston University

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George Peabody College for Teachers

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## Cornell University

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Rensselaer Polytechnic Institute

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Rutgers University

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Southern Illinois University

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## Wayne State University

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## Western Reserve University

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## Yale University

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DAVIS, Keith Gordon. The growth and deformation of cobalt crystals.

## University of Michigan

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## The Ohio State University

GIELISSE, Peter Jacob. Investigation of phase equilibria in the system alumina-boron oxide-silica.

## The Pennsylvania State University

COOK, Donald Jean. The magnetic susceptibilities of copper minerals and cassiterite.

DATTA, Ranajit Kumar. Order-disorder in spinels.

FETTERMAN, James William. Alumina extraction from a Pennsylvania diaspore clay by an ammonium sulfate process.

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PURCELL, Geoffrey. The effect of 18-carbon unsaturated fatty acids on the electrokinetic and flotation properties of rutile.

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## MUSIC

## Boston University

DAVIS, Richard Carroll. Self parody among the cantatas of Johann Sebastian Bach.

INTRAVAIA, Lawrence Joseph. Scoring practices in marches for the wind-band from Lully to Beethoven.

KING, William Joseph. The English anthem from the early tudor period through the restoration era.

MOUNTNEY, Virginia R. The history of the bachelor's degree in the field of music in the United States.

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## The Catholic University of America

JESSEL, O.P., Sister Mary Lisa. The vocal works of Peter Ritter (1763-1846).

MACKEY, S.P., Sister Mary Lourdes. The evolution of the leading tone in Western European music to Circa 1600 A.D.

McSHANE, Margaret Mary. The music of the medieval liturgical drama.

## Columbia University

NEWMAN, Joel. The madrigals of Salomon de' Rossi.

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## Cornell University

ROSEN, Ida. The treatment of dissonance in the motets of Josquin Desprez.

## The Florida State University

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SCHIFFMAN, Harold A. Symphony.

SIMONS, Gene Marion. Comparisons of incipient music responses among very young twins and singletons.

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CULPEPPER, Leon Raines. A study of the hearing impairments in defective singers.

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## Harvard University

JANDER, Owen Hughes. The works of Alessandro Stradella related to the cantata and the opera.

## University of Illinois

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LA BOUNTY, Edwin Murray. Excursus for piano and orchestra.

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PENNINGTON, Kenneth D. An historical and stylistic study of the melodies of Gabriel Faure.

TRAUTWEIN, George William. Furtwangler, Toscanini and Fiddio: a comparative analysis of two performances.

TRITT, Edward Clinton. The community symphony orchestra.

VAN METER, Robert S. 1. Form-types in the keyboard works of J. P. Sweelinck; aspects of nationalism. 2. Realism in pictures at an exhibition; fugue within the contemporary sonata. [performance only.]

WALSTRUM, Theodore Price. 1. The eight preludes for piano by Oliver Messiaen. 2. The influence of J. S. Bach on Mozart's keyboard concerto style. 3. The Kresleriana of Robert Schumann; its significance in romantic piano literature. [performance only.]

YATES, Wilbur Hadley. A history of the cadence in polyphonic vocal music through the 15th century.

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MOE, Daniel Troen. *Te Deum* for winds, percussion, contra bass and chorus.

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HEFFERNAN, Charles William. Thomas Whitney Surette: musician and teacher.

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BIRCH, Thomas Erskine. Musical taste as indicated by records owned by college students with varying high school music experiences.

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BELOW, George J. Johann David Heinichen's *Der General-Bass in der Composition*: a critical study with annotated translation of selected chapters.

CROSS, Ronald. Matthaeus Pipelare: a historical and stylistic study of his works.

GOLD, Robert S. A jazz lexicon.

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PRUETT, James Worrell. The works of Filippo Vitali.

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GLASS, Phyllis Watson. Orchestra music for school and community orchestras selected from works by Viennese and Bohemian composers (1750-1800).

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HOLGATE, George Jackson. Mabelle Glenn: her life and contributions to music education.

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## OCEANOGRAPHY

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## PHARMACOLOGY

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Medical Center

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DE FANTI, David Rockwell. The relationship of dopamine to blood pressure and monoamine oxidase activity in hypertensive rats.

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## PHILOSOPHY

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EMBLON, William John. The theory of reality in the philosophy of R. G. Collingwood.

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- BEARD, Robert William. The concept of rationality in the philosophy of William James.
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- GREENE, Murray. Hegel's notion of pre-conscious mind.

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- BROWN, Patricia Babcock. An analysis of the theories of John Dewey and Alfred North Whitehead on the qualitative aspect of experience and the relation of these theories to education.
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- BARNES, JR., Mahlon W. Concept structure in Cassirer and Whitehead.

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- GRAHAM, Joseph Martin. Secondary causal influx according to Saint Thomas Aquinas.
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- CATALANO, Joseph. The education of substantial forms according to St. Thomas Aquinas.

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- CONNELLY, George Edward. The existence and natures of God in the philosophy of Alfred North Whitehead.
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DEUTRICH, Bernice Marie. Southeastern Wisconsin's four largest cities—their budget and related financial practices.

FINLEY, James Joseph. The postage stamp program of the United States government: administrative aspects.

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VAUGHN, Damon V. A critical study of the preaching of Samuel Porter Jones.

## The University of North Carolina

WOOD, William W. Culture and personality aspect of the Pentecostal Holiness religion.

## Northwestern University

BROWN, Dale Weaver. The problem of subjectivism in pietism: a redefinition with special reference to the theology of Philipp Jacob Spener and August Hermann Francke.

HARDER, Leland David. The quest for equilibrium in an established sect: a study of social change in the General Conference Mennonite Church.

MULL, Kenneth V. The religious education of the gifted.

TAGGART, Morris. A study of attitude change in a group of theological students.

## Pacific School of Religion

CHUCK, James. Zen Buddhism and Paul Tillich: a comparison of their views on man's predicament and the means of its resolution.

SETCHKO, Edward Stephen. A theological context for the pastoral counselor.

## Princeton Theological Seminary

BAILEY, Albert Ernest. A theory of knowledge for Christian education.

CRANE, Sidney Dixon. The gift of prophecy in the New Testament; an inductive study in the exercise and meaning of the prophetic.

ENGER, Knut Mathis. Private confession in American Lutheranism.

ERVIN, Howard Matthew. Theological aspects of the Septuagint of the Book of Psalms.

FREEMAN, Arthur James. The hermeneutics of Count Nicolas Ludwig von Zinzendorf.

HAINES, Joseph Harry. A history of Protestant missions in Malaya during the nineteenth century, 1815-1881.

KOMJÁTHY, Aladar. The Hungarian Reformed Church in America: an effort to preserve a denominational heritage.

MIRANDA, Osmundo Afonso. The work and nature of angels according to the New Testament.

NOSTBAKKEN, Roger Wesley. The theology of Gisle Christian Johnson: an inquiry into its sources, its nature, and its significance.

SCHICK, Edwin Adam. History, eschatology, and time in modern Biblical studies, with special reference to redemptive time in the Gospel of Mark.

STEIN-SCHNEIDER, Herbert Leo. Anagoge, types of kingdom-exegesis in Germany since the time of Protestant Orthodoxy; a study in exegetical methodology.

## Princeton University

ALLEY, Robert Sutherland. The Reverend Mr. Samuel Davies; a study in religion and politics, 1747-1759.

FENTON, John Young. Religious myth; a study in the epistemology of religion.

HELPER, James Stone. Mysticism and revelation.

KEEN, Samuel McMurray. The idea of mystery in the thought of Gabriel Marcel.

MALCOLMSON, William Lacy. The Christian understanding of revelation and the dialogue between the religions.

SCROGGS, Robin Jerome. The Adamic Christology of Paul in the light of his Jewish heritage.

## San Francisco Theological Seminary

CROSSLEY, JR., John Parshley. Man as creature and sinner in the theology of Karl Barth.

HOUK, Cornelius Bailey. The editorial composition of Ezekiel.

McKENZIE, Robert Arthur. A history of the exegesis of Philippians 2:5-11.

## Southern Baptist Theological Seminary

BALTHROP, L. Kenneth. Church orders in the pastoral epistles.

DEBUSMAN, Paul Marshall. Social factors affecting selected Southern Baptists Churches in the Southern Appalachian region of the United States.

DEERING, Ronald F. The humiliation-exaltation motif in I Peter.

HINSON, Glenn. A source analysis of the pastoral epistles with reference to Pauline authorship.

HOLLEY, Franklin Dale. The forms of preaching in the writings of Augustine.

SMITH, JR., William Chaney. The ecclesiological thought of William Owen Carver.

SONGER, Harold S. A study of the background of the concepts of parable in the synoptic gospels.

WILSON, Joe Leo. Some principles in Buddhist expansion.

## University of Southern California

CHANG, Donald Mark. Ethical and economic aspects of labor-management power relationships in the thought of Reinhold Niebuhr and John R. Commons.

## Southern California School of Theology

LANDRUD, JR., Joseph Christian. The dynamics of confession: a theological and psychological investigation.

MARTH, Selden B. Guilt feelings and disapproval projections, as related to parents, church, God, and fate in adolescent sexual development.

MEDFORD, Floyd C. Matthew Parker and his bishops; aspects of the Elizabethan settlement.

RUTSCHMAN, La Verne A. Altar and sacrifice in the Old Testament nomadic period with relation to sacred space and sacred time.



## Southwestern Baptist Theological Seminary

- ASHBURN, Arnold G. The approach of H. Wheeler Robinson to a Christian metaphysic.
- CATES, John Dee. B. H. Carroll: the man and his ethics.
- EAVES, James Franklin. A grammatical and syntactical analysis of Second Timothy.
- ELROD, Ben M. The baptism and temptation of Jesus as the key to an understanding of his Messianic consciousness.
- FERGESON, William Joel. Some social aspects of Nigerian community life: a Christian approach.
- FLETCHER, David L. A re-evaluation of the sacramental idea from a study of the concepts *Sacramentum* and *Mysterion*.
- HUEY, JR., F. B. The Hebrew concept of life after death in the Old Testament.
- McBETH, Leon. English Baptist literature on religious liberty to 1689.
- PROPST, JR., J. Henry. The relation of pessimism to millennial ideas.
- ROBINSON, James M. A christian evaluation of conception control.
- RUNNELS, Olan Hugh. The ethical significance of Paul's doctrine of salvation in the Corinthian correspondence.
- SEMPLE, James Henry. A history of the Florida Baptist Convention from 1865 to 1918.
- SILVA, Paulo Wailler da. An ethical analysis of the sermons of Antonio Vieira, S.J.
- TAYLOR, Robert H. Jesus' conception of man in the Synoptics.
- WARE, Browning. The emerging group ethic: a Christian appraisal.
- YOUNG, John Terry. Biblical aspects of the concept of Agape in Anders Nygren and Gustaf Aulen.

## Stanford University

- SAZ-OROZCO, Carlos. Desarrollo del concepto de Dios en el pensamiento religioso de Juan Ramón Jiménez.

## Temple University

- ERNST, Wilton Donald. The place of the scriptures in the Lutheran Churches in America from the end of the First World War to the middle of the Twentieth Century.

## Union Theological Seminary (New York)

- ANDERSON, Charles Samuel. The person and position of Dr. Robert Barnes, 1495-1540: a study in the relationship between the English and the German Reformations.
- BATER, Basil Robert. The Church in the Wilderness: a study in Biblical Theology.

BATHGATE, John. Some Christian efforts in rural reconstruction in India: a study in the problem of missions and social change.

CARLSON, Arnold Everett. The relevance of Luther's understanding of the Holy Spirit for contemporary theology.

FLEMING, John Robb. The growth of the Chinese Church in the new villages of the State of Johore, Malaya: a study in the communication of the Gospel to Chinese converts.

JACKSON, Jared Judd. The Ark Narratives: an historical, textual and form-critical study of I Samuel 4-6 and II Samuel 6.

LYNN, Robert Wood. Family-sunday school partnership: a chapter in the history of Protestant educational strategy.

McKENNA, Richard John. The personal religious life in the thought of St. Francis De Sales.

NELSON, Gustav Carl. An analysis of the hermeneutical method of Rudolf Bultmann in relation to other methods of Biblical study and the resulting implications of that method for Christian education in the American Church.

PENZEL, Klaus. Church history and the ecumenical quest: a study of the German background and thought of Philip Schaff.

PRICE, Charles Philip. Remembering and forgetting in the Old Testament and its bearing on the early Christian Eucharist.

THOMSON, Alan Craft. The theological declaration of Barmen and the reformation conception of the Church.

VOELKEL, Robert Townsend. The conception of faith in the theology of Karl Barth.

WIESER, Thomas. Kingdom and Church in Luke-Acts.

WILSON, John Frederick. Studies in Puritan Millenarianism under the early Stuarts

## Union Theological Seminary in Virginia

FITZGERALD, George Hanlin. The Irish articles of religion and the Westminster confession of faith.

HAMRICK, William Spencer. Soren Kierkegaard's category of the distinct individual.

## Vanderbilt University

EIKNER, Allen Van Dozier. The nature of the Church among the Disciples of Christ.

GOSSETT, JR., Earl Fowler. The doctrine of justification in the theology of John Calvin, Albrecht Ritschl, and Reinhold Niebuhr.

HAMMOND, Guy Bowers. The concept of self-estrangement in the thought of Erich Fromm and Paul Tillich: a comparative study with emphasis on implications for theological method.

THOMAS, George Hasson. Revelation, faith, and doctrine: a study based on the theology of John Calvin, Friedrich Schleiermacher, and Karl Barth.

## Woodstock College

O'BRIEN, Gerald J. Integralism: an historico-critical study of this phenomenon as seen in the writings of Emmanuel Barbier, 1851-1925.

PREDOVICH, Nicholas A. Leo XIII on education: an historical, analytical and critical study.

TAYLOR, Michael J. Liturgical renewal in American Protestant Churches.†

## Yale University

BENDER, Ross Thomas. The role of the contemporary family in Christian nurture: a theological interpretation.

BRICE, Eugene Wayne. A study of hatred and anger in Old Testament man.

BULLARD, John Moore. Biblical humor: its nature and function.

CLARK, Jack Lowell. A reexamination of the problem of the Messianic secret in Mark in its relationship to the synoptic "Son of Man" sayings.

COOLEY, Frank Leonard. Altar and throne in central Moluccan societies: a study of the relationship between the institutions of religion and the institutions of local government in a traditional society undergoing rapid social change.

DELLBRUGGE, Georg Hermann. *Simul Justus et Peccator*: a study in the theologies of Martin Luther and Reinhold Niebuhr.

HOLLAND, David Larrimore. A study of the old Roman symbol, its earliest text with an historical interpretation.

HOPKINS, Thomas Johns. The Vaishnava Bhakti movement in the *Bhāgavata Purāna*.

MARIUS, Richard Curry. Thomas More and the heretics.

MAY, William Francis. Dread before death and revolt against death: a study of Heidegger and Camus.

MINUS, JR., Paul Murray. The contemporary Catholic reconsideration of Protestantism in French-speaking Europe.

NELSON, James Bruce. The Church as context of the moral life.

REINELT, Herbert R. God and actuality: a critical interpretation of the analogy between God and the world in terms of the categorical scheme of Alfred North Whitehead.

SPIVEY, Robert Atwood. The origin and milieu of the Gospel according to Thomas.

STACKHOUSE, Reginald Francis. Thomas Arnold's theory of Church and State.



## SOCIAL PSYCHOLOGY

## Boston University

BURKE, Richard Leonard. Ratings of self and others as a function of expectations and evaluations.

SNIDER, Marvin. The relationship between fear arousal and attitude change.

## University of California, Berkeley

HARPER, Frank Berryman Wilson. The sociometric composition of the group as a determinant of yielding to a distorted norm.

## Carnegie Institute of Technology

BROWN, Warren Bondi. The effects of success, failure, and knowledge on person perception and the attribution of causality.

## Columbia University

ADAMS, James R. Attitudinal ambivalence and choice of contraceptive method.

ASKENASY, Alexander R. Attitudes toward mental illness and the rehabilitation of mental patients: a study of mental health personnel in an Atlantic border state, in Hawaii and in England.

BOUQUET, Susana. Acculturation of Puerto Rican children in New York and their attitudes toward Negroes and whites.

CASLER, Lawrence. The effects of extra tactile stimulation on a group of institutionalized infants.

GOLDMAN, Irwin J. The willingness of music and visual art students to admit to socially undesirable and psychopathological characteristics.

GORFEIN, David. Individual response components in relation to attempted social influence.

MARLOWE, Leigh. Perceptions of a culture hero.

MUNZER, Jean. The effect on analytic therapy groups of the experimental introduction of special "warm-up" procedures during the first five sessions.

STEINZOR, Luciana V. Individualism and cooperation: a social-psychological study of an agricultural reform.

WEINSTOCK, S. Alexander. The acculturation of Hungarian immigrants: a social-psychological analysis.

YOUNG, Howard D. The effects of oral censure on the conceptual performance of chronic schizophrenics as a function of premorbid adjustment and current mental health.

## The University of Connecticut

FISCHER, Edward Henry. The effects of verbal reinforcement on the task performance of chronic schizophrenic patients.

## University of Denver

ARMATAS, Philip James. A factor analytic study of patterns of religious beliefs in relation to prejudice.

RUTHENBERG, Donald Burton. Understandings of staff toward rules, regulations, policies, and procedures.

## The University of Florida

COOKE, Terence Francis. Interpersonal correlates of religious behavior.

PENROD, JR., William Tony. The effects of member orientation upon the development of group structure.

## The Florida State University

HEALY, Ann Kirtland. Effects of changing social structure through child leaders.

## Harvard University

BACHELIS, Warren David. Occupational values and cognitive styles.

DANIELS, Philip Bliss. The teaching and learning of heuristic analysis.

MACHOTKA, Pavel. The development of esthetic criteria in childhood: a cross-cultural study.

## University of Illinois

PAPAGEORGIS, Demetrios. The Bartlett effect and the persistence of induced opinion change.

RICE, Doyle Kent. Functional reciprocity and operant value: an experimental study of the devaluation hypothesis in reciprocal relations.

RICKARD, Thomas Edwin. Indices of employer prejudice. An analysis of psychological aspects of prejudice toward the disabled worker.

SCHWARTZ, Michael. Style of rule enforcement and group effectiveness.

## University of Kansas

STACHOWIAK, James Gregory. Hypnosis, the principle of congruity, and attitude change.

## Massachusetts Institute of Technology

SINGER, Marshall R. Leadership in Ceylon: a comparative study of elites.

## University of Michigan

ANDREWS, Frank Meredith. Creativity and the scientist.

BARENBLATT, Lloyd. Test-measured anxiety and stress as related to the accuracy of interpersonal judgments.

BOWERS, David Glenn. Some aspects of affiliative behavior in work groups.

CALHOUN, Roland LeRoy. Item form and item discriminating power: an experimental study.

FINK, Clinton Frederick. The strength of perceived relations as a factor in cognitive-affective consistency: an experimental study.

HAGGSTROM, Warren Conrad. Self-esteem and other characteristics of residentially desegregated Negroes.

HARBURG, Ernest. Covert hostility: its social origins and relationship with overt compliance.

HUBBELL, Anne Boyer. Social origins of control of aggression.

HUBBELL, Charles Hugh. An input-output model for influence structures.

KREBS, Allen Martin. The relationship of entrepreneurial and bureaucratic familial backgrounds to scientific performance in different research settings.

MEDOW, Herman Marvin. Peer group position and receptivity to outside influence.

PRICE, Kendall Owen. Intensity of attraction as a condition in a social psychological balance theory.

SPIVAK, Mark. Factors influencing the formation of a patient-percept by psychiatrists following the initial interview.

## Michigan State University

SEARLE, Ray Richard. A study of the stability of vocational values as measured by the vocational value: inventory.

TAKEDA, Ken. The effect of dyadic relationships on accuracy of sociometric perception in boys' groups.

## University of Minnesota

ARROWOOD, Arthur John. Some effects on productivity of justified and unjustified levels of reward under public and private conditions.

BORAH, JR., Lee A. An investigation of the effect of threat upon interpersonal bargaining.

HAWKINS, Charles Edward. A study of factors mediating a relationship between leader rating behavior and group productivity.

## University of Missouri

FJELD, Stanton P. The communication of values and sociometric choice.

## New York University

FRANKEL, Jesse Joseph. The conflict between older workers and younger age groups for available jobs in the United States.

GELLMAN, Irving Peter. Alcoholics Anonymous: an autonomous organization of social deviants.

KATZ, Bernard. Predictive and behavioral empathy and client change in New York City.

MALIKIN, David. A study of the relationship between the vocational self-perception and the rehabilitation of older, handicapped men in a sheltered shop program.



MANNE, Sigmund Herbert. An investigation of the effects of group therapy on some personality characteristics of adult male offenders.

PLOSKI, Harry A. Relationships of social and perceptual rigidity to learning efficiency.

RABINOWITZ, Kalman. Stylistic influences in social perception.

ROSEMAN, Tena Melinda. Relationship between Northern-born and reared Negro children and Southern-born and reared Negro children in terms of self-concept, aspiration level, and achievement performance.

SLOTE, Geraldine M. Feminine character and patterns of interpersonal perception.

VOGELSON, Myrtle Lifland. A comparison of certain variables related to work of physically and psychiatrically handicapped selective placement applicants.

The University of North Carolina

RUSHING, William Alexander. Professional adaptive problems on a psychiatric service.

WRENCH, David Frazer. Some effects of motivational differences on the perception of attitudes.

The Ohio State University

DAY, David Robert. Basic dimensions of leadership in a selected industrial organization.

ELMORE, Thomas Morris. The development of a scale to measure psychological anomie.

FRUMKIN, Robert Martin. Preferences for traditional and modern painting: an empirical study.

HAVENS, Arthur Eugene. Social psychological factors associated with the differential adoption of new technologies by milk producers.

Princeton University

DRIVER, Michael James. The perception of simulated nations: a multidimensional analysis of social perception as affected by situational stress and characteristic levels of cognitive complexity in perceivers.

Radcliffe College

DIAMOND, Rhea Mendoza. Recall and recognition of negatively emotional situations.

OLVER, Rose Richardson. A developmental study of cognitive equivalence.

PAPANEK, Hanna Kaiser. Leadership and social change in the Khoja Ismaili community.

BROWN, Robert Lane. Attitudes of ministers and lay leaders of the American Baptist Convention of the State of Washington on selected social issues.

Stanford University

BRADEN, Marcia Houston. Preparatory communications and attitude change.

HARDYCK, Jane Elizabeth Allyn. Cognitive interrelationships and resistance to influence.

OLESEN, Virginia Lee. Sex role definitions among college undergraduates: a study of freshmen entering Stanford in fall 1958.

Syracuse University

COSBY, Betty. An investigation of homogeneity on selected personality variables in formal social groups, and the effect of such homogeneity on the personality of group members.

The University of Wisconsin

KOENIG, Fredrick Walter. Perception of order, and morale in small group situations.

SOCIAL WORK

Brandeis University

EHLERS, Walter H. The moderately and severely retarded child: Maternal perceptions of retardation and subsequent seeking and using services rendered by a community agency.

LAMBERT, JR., Camille. Interpersonal factors associated with the utilization of a public health dental clinic.

REIN, Martin. An organizational analysis of a national agency's local affiliates in their community contexts: a study of the Planned Parenthood Federation of America.

SCOTT, John F. The selective influence of social and psychological characteristics of mothers on information and attitude changes in mental health education.

The Catholic University of America

YASAS, Frances Maria. Gandhian values and professional social work values, with special emphasis on the dignity of man.

University of Chicago

LEWIN, Thomas F. The employment experience of married women social caseworkers: a study of one hundred graduates of the New York School of Social Work, Columbia University.

Columbia University

KAMAL, Ahmed K. A. Youth welfare for Egypt, United Arab Republic.

MEIER, Elizabeth G. Former foster children as adult citizens.

MILLER, Henry. An information theory approach to the study of the clinical judgment process.

ORCUTT, Ben A. Anchoring effects in the clinical judgments of social work students and experienced caseworkers.

VISWANATHAN, N. The role of the American Public Welfare Association in the formulation and development of public welfare policies in the United States: 1930-1960.

University of Pennsylvania

BATEMAN, Richard W. Social work in a Big Brother Agency.

BERG, Renee M. A study of a group of unwed mothers receiving aid to dependent children.

RIOS, Trinidad Rivera de. Two experiences in the use of a time-limited pre-discharge casework service in two institutions for emotionally disturbed children; The Esther Loring Richards Children's Center in Owings Mills, Maryland and the State Home for Boys in Guayanabo, Puerto Rico.

TRADER, Harriet P. A study of the experiences of families related to the second admission of relatives to a state mental hospital.

University of Southern California

SCHINDLER-RAINMAN, Eva. Community organization: selected aspects of practice.

Syracuse University

NELSON, Edith. Evolution of federal and state legislation aiding housing for the elderly in New York State.

Washington University

CONNER, Geraldine Louise. A study of indices of competence used by supervisors to evaluate caseworker performance.

HARTMAN, Charles. Social casework and pastoral counseling: a study of perceived similarities and differences of the goals and methods of two helping professions.

SOCIOLOGY

GENERAL

Boston University

ARTIS, William Wayne. The use of occupational indexes in planning church strategy.

BROWNING, Grainger. Social prestige in a low income housing community.

MORAVEC, Jaroslav G. Social order through law.



## Brown University

GROAT, Harry Theodore. College student migration: 1887 to 1958.

## The University of Buffalo

KUMAN, Alexander. A changing church: a study of change in church membership and activities associated with urbanization in a rural county.

PIEDMONT, Eugene Bernard. An investigation of the influence of ethnic grouping differences in the development of schizophrenia.

## University of California, Berkeley

FUSÉ, Toyo-Masa. A sociological analysis of neo-orthodoxy in American Protestantism: a study in the sociology of religion.

LOWRY, Ritchie Peter. Who runs this town? A study of the quality of public life in a changing small community.

LYMAN, Stanford Morris. The structure of Chinese society in nineteenth-century America.

## University of California, Los Angeles

BLOONBAUM, Milton Sheldon. The resolution of role conflict.

HALL, JR., Nason Eustace. Social similarity and neighboring behavior: a study of four metropolitan neighborhoods.

## The Catholic University of America

PAYNICH, Mary Louise. The therapeutic role of the visiting nurse: a microscopic analysis of consensus among nurses and patients.

## University of Chicago

BEALE, Lathrop V. Religiousness and integration into the community.

BLOOMBERG, JR., Warner. The power structure of an industrial community.

BOOTH, Mary Ward. Homeless men: occupational mobility and related background factors.

ERBE, William. Student integration and departmental cohesiveness in American graduate schools.

GOUVEIA, Aparecida J. Student teachers in Brazil: a study of young women's career choices.

GREELEY, Andrew M. The influence of religion on the career plans and occupational values of June 1961 college graduates.

HAERLE, JR., Rudolf Karrmann. A survey of the literature on religious intermarriage, with special emphasis on Catholics in mixed marriages.

JILLANI, Mahmud Salim. Resettlement patterns of displaced persons in Pakistan.

MATHUR, Prakash C. Internal migration in India 1941 to 1951.

NAHIRNY, Vladimir C. The Russian intelligentsia: from men of letters to men of convictions.

PIVEN, Frances Fox. The function of research in the formation of city planning policy.

PRACHUABMOH, Visid. Patterns of child spacing in a metropolis: Chicago.

REDICK, Richard W. A demographic and ecological study of Rangoon, Burma: 1953.

SCOTT, W. Richard. A case study of professional workers in a bureaucratic setting.

SPAETH, Joe L. Value orientations and academic career plans: structural effects on the careers of graduate students.

STAMLER, Rose S. Racial differences in heart disease risk factors: some social-psychological aspects.

WINSBOROUGH, Halliman H. A comparative study of urban population densities.

ZAKUTA, Leo. A becalmed protest movement: a study of change in the CCF.

## University of Colorado

GRAY, Charles Howard. Coalition, consensus, and conflict in the United States Senate (1957-1960).

SHERLOCK, Basil Joseph. Role acquisition in a state mental hospital.

## Columbia University

DIBBLE, Vernon K. The diffusion of the bureaucratic outlook: some lessons from the *Verein für Sozialpolitik*.

GLASER, Barney G. Some functions of recognition in a medical research organization.

GLAZER, Nathan. The social basis of American Communism.

GORE, Madhav S. The impact of industrialization and urbanization on the Aggarwal family in Delhi area.

GRANICK, Ruth. Social isolation experienced prior to entry as a factor in the adjustment of residents of a home for aged.

HACKER, Helen M. A functional approach to the gainful employment of married women.

HARPER, Dean H. Some new applications of dichotomous algebra to survey analysis and latent structure analysis.

LINDENFELD, Frank. An analysis of political involvement.

MEYER, Alan S. The not-so-solid South—a study of variability in southern sentiment on school desegregation.

MITCHELL, Robert E. Minister-parishioner relations.

MOSS, Milton. Short-run changes in consumer demand: a study in methods of observation with special reference to automobile demand.

PRICE, James L. State bureaucracy: a comparative inquiry into the conditions of organizational stability.

SEGER, Imogen. Responsibility for the community: a new norm confronts tradition in Lutheran city churches.

SOMERS, Robert H. The latent content model: a method for interpreting the meaning of a concept.

TOIGO, Romolo. Parental social status as a contextual and individual determinant of aggressive behavior displayed by third-grade children in the classroom situation.

WALLACE, David. The sociology of stability and change in one suburb's voting.

## Cornell University

ARTIS, Rudolph Douglas. An analysis of the community 4-H club.

CRUAGAO, Paitoon. Changing Thai society: a study of the impact of urban cultural traits and behavior upon rural Thailand.

HOLDEN, David Edward William. The referent function of Sorokin's typology of groupings.

IRVIN, JR., Floyd Sterling. A comparative study of the relationship between counselor-student ratio in a residence counseling program and academic achievement, personal problems, and study habits and attitudes of college freshmen.

LUSCHINSKY, Mildred Stroop. The life of women in a village of North India: a study of role and status.

WALTON, Tommy Laurice. Characteristics and leisure time interests of rural high school boys and girls in Georgia especially related to 4-H program building.

## The University of Florida

HADDOX, Benjamin Edward. A sociological study of the institution of religion in Colombia.

## The Florida State University

GOULD, Norman Selby. Marriage role expectations of single college students as related to selected social factors.

NEWTON, Charles Howard. Patterns of career decisions within the professions.

SILVERMAN, Saul A. Exploration and evaluation of various aspects of personality and self concept change in functional marriage education with special regard to those of low marriage potential.

## Harvard University

BERGEN, Bernard Joseph. Social class, symptoms and mental illness: implications for preventive psychiatry.

CRAMER, Miles Richard. School desegregation and new industry: the southern community leader's viewpoint.

DODD, Peter Carter. Role conflicts in the school principalship.

DREEBEN, Robert. Organization and environment: the relationship between mental hospital and district court.



ISRAEL, Herman. Labor's sense of distributive justice in industry.

JUNG, Richard. Analysis of psychosocial development: a study of adult, educated women.

PORTIS, JR., Bernard. Education as a factor in ethnic attitudes.

WALKER, Roger Boyd. Communication in a manufacturing organization.

University of Illinois

BOBREN, Howard Mark. The time order of response and nonresponse bias in mail surveys.

COHEN, Harry. The demonics of bureaucracy: a study of a government employment agency.

HERRICK, Robert Lee. Organized churches and the social integration of a community.

MILLER, Laurence Keith. An experimental test of the Davis-Moore theory of reward differentiation.

NASIR, Sari Jamil. The image of the Arab in American popular culture.

PETERSON, Richard Austin. Orientations to the resolution of inter-personal tension.

Indiana University

FORD, Phyllis Marjorie. An analysis of leisure time activities and interests of aged residents in Indiana.

FORSTON, Raymon Charles. The threat of Elizabethan Puritanism to the Anglican social order.

Iowa State University  
of Science and Technology

ANDERSON, Albert Frank. Theoretical considerations in the analysis of migration.

MULFORD, Charles Lee. Some relationships between formal organizations, community problems and leadership.

VEIGEL, Charles Clarence Harding. An experimental study in differential perception of status criteria.

University of Kansas

SNYDER, Eldon Eugene. The school as a social system: a study of selected aspects of a student social structure.

University of Kansas City

WAGNER, Patricia Y. Voluntary associations in Kansas City, Mo., 1870-1900.

Louisiana State University

NUGENT, Elinor Roth. The relationship of fashion in women's dress to selected aspects of social change from 1850 to 1950.

University of Maryland

LAWS, Frederick Donald. An exploratory sociological investigation of childhood accidents.

MARCHES, Joseph R. A comparative study of the leisure time activities of 427 delinquent boys and girls and a norm group of 6,048 boys and girls drawn from the Washington metropolitan high school population.

University of Michigan

BERK, Bernard Byron. Informal social organization and leadership among inmates in treatment and custodial prisons: a comparative study.

FELLIN, Phillip Alexander. A study of the effects of reference group orientations and bureaucratic careers on neighborhood cohesion.

LEGGETT, John Carl. Working class consciousness in an industrial community.

STREET, David Paul. Inmate social organization: a comparative study of juvenile correctional institutions.

TOMEH, Aida Kaiser. Informal group participation and settlement patterns in metropolitan Detroit.

Michigan State University

ERICKSON, Eugene Curtis. The reputational technique in a cross-community perspective: selected problems of theory measurement.

GESCHWENDER, James Arthur. Structural and social-psychological prerequisites for proletarian social movements.

GOLDSMITH, Harold F. The meaning of migration: a study of the migration expectations of high school students.

GUPTA, Savita. Net migration in Michigan 1950-1960: a study of population change in relation to the functional variables.

HARKNESS, James Perry. Hospital organization in transition: a sociological analysis of interlocking social systems.

LUTFIYYA, Abdulla M. Baytin: a Jordanian village. A study of social institutions and social change in a folk community.

STODDARD, Ellwyn R. Catastrophe and crisis in a flooded border community: an analytical approach to disaster emergence.

WON, George Yoon Man. Democratic sentiments in unionism: a case study of the U.A.W. international convention.

University of Minnesota

CRANE, John Ashley. The reliability of case-work diagnostic judgments in marital problem cases at intake in a family agency.

HANSEN, Donald A. The impact of middle-class delinquency on the family: an exploratory study.

JOHNSON, Clarence Dale. Priest, prophet, and professional man: a study of religious leadership in a small community.

KROEGER, Virgil John. A study in the classification of delinquent behavior.

SIMIRENKO, Alex. Pilgrims, colonists, and frontiersmen: an ethnic community in transition.

University of Missouri

CHAUDHARI, Haider Ali. The occupational and geographical mobility of University of Missouri graduates: a pilot study.

EDMOND, Vernon H. Logical error as a function of group consensus: an experimental study of the effect of erroneous group consensus upon logical judgments of graduate students.

LOVELESS, Austin Gudmund. Background and economic status of the unemployed of St. Francois County, Missouri and their attitudes toward retraining.

LOWE, James Lilburn. Educational and occupational aspirations of high school seniors.

PLYLER, Henry Ellis. Variation of ministerial roles by size and location of church.

The University of Nebraska

FALK, Laurence Le Roy. The minister's response to his perception of conflict between self-expectations and parishioners' expectations of his role.

KINSEY, Barry Allan. Alcohol and women: a sociocultural study of forty-six female inebriates at the Willmar State Hospital, Willmar, Minnesota.

New School for Social Research

BENARI, Benjamin. A sociological study of Jewish reconstructionism.

KAMPF, Abraham S. A study in contemporary synagogue art.

RATTNER, Leo. The SS: a study of Nazi terrorism.

New York University

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STARR, Jerome Lincoln. The cultural and educational development of aborigines and settlers in Russian America, 1784-1867.

THIER, Herbert David. Juvenile aid bureaus and the public schools in the state of New Jersey.

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KATZ, Fred Emil. The profession of pathology: a sociological study of patterning in medical practice.

NORSWORTHY, David Ray. Mobility effects of industrial growth: structural change and work experience in a Southern Piedmont community.

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COFFEE, Thomas Monterville. An empirical study of residential propinquity and marital selection: South Bend, Indiana, 1954-1958 inclusive.

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THEISEN, Sylvester P. A social survey of aged Catholics in the deanery of Fort Wayne, Indiana.

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HALL, Richard Hammond. An empirical study of bureaucratic dimensions and their relation to other organizational characteristics.

KAY, Barbara Ann. Differential self perceptions of female offenders.

SIMPSON, Jon Eaton. Selected aspects of institutionalization as perceived by the juvenile offender.

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LEONARD, Robert Carl. Leaders' judgments of their own groups' opinions: a case study in sociological theory building.

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DAVIS, Milton Simon. Factors affecting compliance to the medical regimen established for heart patients by their physicians.

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ISTIPHAN, Isis. Role expectations of American undergraduate college women in a western coeducational institution.

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Stanford University

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Tulane University

MALONE, David Hale. Individual scope in the occupational images of trainees: a problem in medical and nursing socialization.

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COE, Rodney Michael. Institutionalization and self-conception.

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MEILE, Richard Lawrence. Performance and adjustment of first year law students.

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HELLING, Rudolf Anton. A comparison of the acculturation of immigrants in Toronto, Ontario, and Detroit, Michigan.

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SHIMER, Eliot Richmond. Consensus attainability in group problem-solving.

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LUTTERMAN, Kenneth Gordon. Giving to churches: a sociological study of the contributions to eight Catholic and Lutheran churches.

PRIGMORE, Charles Samuel. An analysis of rater reliability on the Glueck scale for the prediction of juvenile delinquency.

VEIDEMANIS, Juris. Social change: major value-systems of Latvians at home, as refugees, and as immigrants.

Yale University

GOSLIN, David Alexander. Accuracy of self perception and adolescent adjustment.

JONES, Charles Frederick. Social and cultural change in three Minnesota Chippewa Indian communities.

MAUNG, Maung. Law and custom in Burma and the Burmese family.

PHILLIPS, Derek Lee. Help-sources and rejection of the mentally ill: an experiment in influencing responses to mental disorder.

PLYMIRE, Margaret McCrindle. Adaptation to illness: a study of patterns of search.



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Columbia University

BELLIN, Seymour S. Extended family relations in later years of life.

CHEEK, Frances. Family interaction with schizophrenics.

Cornell University

BRADFIELD, Leila Aflatoun. Consistency in husband-wife relationships.

CLARK, Alma Beth. Economic contributions made by families to their newly married children.

ROLLINS, Boyd Carter. Values consensus and cohesion in the husband-wife dyad.

SCHLESINGER, Benjamin. Development of interspousal participation in decision making of college educated couples.

SINGH, Rudra Datt. Family organization in a North Indian village: a study in culture change.

The Florida State University

STITH, Marjorie May. Child-rearing attitudes in three-generation households.

George Peabody College for Teachers

LONG, JR., Nathaniel Turner. A study of divorce in Davidson County, Tennessee, 1946-1960.

University of Illinois

DOWNEY, Kenneth James. Parental interest in the institutionalized, mentally retarded child.

University of Michigan

ARD, JR., Ben Neal. Sexual behavior and attitudes of marital partners.

TAKESHITA, Yuzuru. Socioeconomic correlates of urban fertility in Japan.

Michigan State University

BRUNSON, Rose Toomer. Socialization experiences and socio-economic characteristics of urban Negroes as related to use of selected Southern foods and medical remedies.

The University of North Carolina

ELDER, JR., Glennard Holl. Family structure and the transmission of values and norms in the process of child rearing.

The Ohio State University

FOSTER, Elizabeth Smith. The joint-participation pattern of husbands and wives: a study in urban, middle-class families.

University of Oregon

ROLLINS, James Morgan. Two empirical tests of a Parsonian theory of family authority patterns.

St. Louis University

MATHEWS, Reverend Vincent DePaul. A study on the nature and frequency of marital problems and their relationship to certain sociological factors in Catholic marriages.

Vanderbilt University

BECHILL, Verne C. A comparison of role incongruity in married and divorced couples.

University of Wyoming

BARBULA, Phillip Marvin. Adjustment of delinquent boys as related to the degree of similarity between parents' and boys' perceptions of some characteristics underlying the boys' delinquency.

DENNIS, Harry A. Organized family camping.

**PUBLIC WELFARE**

University of Colorado

SHERMAN, Edith Mary Rosenfeld. An inquiry into the nature of the gerontological movement in Colorado, 1935-1962.

Harvard University

MARCH, Michael Sam. Veterans' benefits and the general social welfare benefits: a study in program relationships.

ZOLA, Irving Kenneth. Sociocultural factors in the seeking of medical aid.

University of Maryland

ALDOORY, Adnan Mohammed. *Modus operandi* and recidivism "the technique of crime as criterion of the type of criminality."

University of Michigan

SARRI, Rosemary Alcuin Conzemius. Organizational patterns and client perspectives in juvenile correctional institutions: a comparative study.

University of Minnesota

POOR, J. Lucille. Historical growth and development of attitudes, care and treatment in Minnesota mental hospital program.

New York University

RICHARDSON, James Francis. The history of police protection in New York City, 1800-1870.

TAKLA, Leila Ibrahim. The aid to dependent children program and delinquency among its recipients.

North Texas State University

WALTHER, Richard Ernest. The evaluation of youth workers in institutions for juvenile delinquents.

The Ohio State University

SINDWANI, Khairati Lall. Leader behavior in social work administration.

YADAVA, Amina Kumar Singh. Prediction of giving to community fund-raising federations: use of multiple linear regression, configuration, Glueck and Burgess approaches.

University of Southern California

DAVIS, Edith Mary. Juvenile probation officers' perceptions of education and training essential for job performance.

University of Toronto

SPLANE, Richard Beverley. The development of social welfare in Ontario, 1791-1893: the role of the Province.

University of Utah

BAKER, James Marion. The relationship between social stress and medical health.

The University of Wisconsin

VOSS, Harwin LeRoy. Insulation and vulnerability to delinquency: a comparison of the Hawaiians and Japanese.

**RACE QUESTION**

Boston University

HAGOPIAN, Elaine Catherine. Morocco: a case study in the structural basis of social integration.

University of California, Berkeley

FRANCE, Edward Everett. Some aspects of the migration of the Negro to the San Francisco Bay Area since 1940.

The Catholic University of America

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University of Chicago

TAEUBER, Alma F. A comparative urban analysis of Negro residential succession.



## Cornell University

NOEL, Donald Leroy. Correlates of anti-white prejudice: attitudes of Negroes in four American cities.

## University of Illinois

BYUARM, Samuel Walter. Community action: a case study in racial cleavage.

## University of Michigan

WHEELER, Raymond Harry. The relationship between Negro invasion and property prices in Grand Rapids, Michigan.

## University of Minnesota

ERNO, Richard Bruce. Dominant images of the Negro in the ante-bellum South.

## New York University

KAY, Toombs Hodges. The role of selected Protestant churches in emancipation and integration.

LEVY, Benjamin N. Patterns and processes of integration of a selected minority group in a small community.

REUTER, Frederick Phillip. An administrator's guide to successful desegregation of the public schools.

## The Ohio State University

GOBETZ, Giles Edward. Adjustment and assimilation of Slovenian refugees.

## Purdue University

GORDON, Whitney Hyde. Stress and the Jewish Community of Middletown.

## The University of Texas

GLENN, Norval Dwight. The Negro population in the American system of social stratification: an analysis of recent trends.

## Western Reserve University

CAPLAN, Eleanor Kirschner. Attitude and behavior in a middle class biracial neighborhood: a situational approach to relationship and prediction.

## SPEECH—THEATER

## The Catholic University of America

GINGRAS, George E. The categories for tragedy in the contemporary French drama (The theatre of 1918-1950).

## Columbia University

MOCKLER, Robert J. The heroic romance in Elizabethan drama.

## Columbia University Teachers College

LEPPERT, Robert Charles. Theatre: four by four.

## Cornell University

BLACK, Edwin Benjamin. Method in rhetorical criticism.

CULP, Ralph Borden. Drama-and-theater as a source of Colonial American attitudes toward independence, 1758-1776.

GREGORIC, Michael Thursam. Principles and practice in modern dramatic criticism.

KERR, JR., Harry Price. The character of political sermons preached at the time of the American Revolution.

## University of Denver

BODEN, Anneke-Jan. Original arrangements of biblical literature for Readers' Theatre.

HANNAH, Jo Morison. An implementation of the listening theory in communication of literature.

HUNKER, Harold Yewell. Performance differences among speech students as a result of constancy or change in audiences.

LINDSEY, Henry Carlton. A comparative study of oral communications training in the service academies.

MOSTAFA, Ramzi El-Sayed. Abstract expressionist settings for three modern plays.

NORTON, Max C. The design and evaluation of a specialized program for the development of certain language skills of the pre-reading child.

SHANKWEILER, William Eugene. Three original full-length plays.

## The University of Florida

ARTHUR, Robert Harward. The effect of contextual and non-contextual motion pictures on the speech reading proficiency of comparable adult males.

KIRK, John Wayne. Dramatism and the theatre: an application of Kenneth Burke's critical methods to the analysis of two plays.

TAYLOR, Mary Jeanette. Bernard Lamy's *La Rhétorique ou l'Art de Parler*: A historical and critical analysis.

## University of Illinois

BROOKS, Alfred Glenn. The subsidized theatre in Western Germany 1945-1960.

DAY, Dennis Gene. An exploration of the theory of identification, with an experimental investigation of its operation in oral communication.

GRIFFITH, Jerry. The modification of functional articulation errors under principles of instrumental conditioning.

HAMBRICK, Thomas Gregory. Satire as apologia: an analysis of the chief modes of rhetorical proof in the apologetic satires of Alexander Pope.

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RUDE, Leslie Gene. A rhetorical analysis of the Minnesota farmer-labor movement.

SLOAN, John Herbert. William Jennings Bryan's convention and acceptance speeches: 1896-1912.

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WILHOIT, Robert Lee. The rhetoric of the folk hero: William Allen White.

## Indiana University

BARNETT, Suzanne Elizabeth. Persuasion and prejudice: an experimental study of the effects upon listener attitudes of the addition of extreme and moderate ideas to persuasive speeches.

BOST, Jams Stephen. The character of Hamlet in relationship to the structure of the play.

FLESER, Arthur Fredrick. The rhetoric of Calvin Coolidge.

LAZENBY, JR., Walter Sylvester. Stage versions of Dickens' novels in America to 1900.

MICHALAK, M. Victor. The management of Augustin Daly's stock company, 1869-1899.

MILLS, John Arvin. Language and laughter: a study of comic diction in the plays of Bernard Shaw.

SWINNEY, Donald Henry. Production in the Wallack theatres 1852-1888.

TEBBE, Margaret Manzer. Contributions of William James to speech and theatre.

WADLEIGH, Paul Custer. Form in Oscar Wilde's comedies: a structural analysis.

## State University of Iowa

BITZER, Lloyd Frank. The lively idea: a study of Hume's influence on George Campbell's *Philosophy of Rhetoric*.

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CAMPBELL, Richard Allen. The adequacy of a traditional place theory in the perception of periodicity pitch.

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HARDY, James Chester. A study of pulmonary function in children with cerebral palsy.

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KUNZE, LuVern H. An investigation of the changes in sub-glottal air pressure and rate of air flow accompanying changes in fundamental frequency, intensity, vowels, and voice registers in adult male speakers.

MILLER, Gerald Raymond. The effect of varied incentive conditions on the oral presentation of a second speaker.

POLZIN, Donald Elmer. The relationship of ethics and drama as seen in recent writings in aesthetics.

ROSENBERG, Donald Louis. The dramatic theory of Rodolfo Usigli: the poetry of selective realism.

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TERFLOTH, John H. The stage reform of Ludwig Tieck, analyzed from his concept of stage reality.

TURNER, Caryl Ann. A history of the Northern Oratorical League.

WILLIAMSON, Ward. An analytical history of American criticism of the works of Sean O'Casey, 1924-1958.

#### University of Kansas

OSBORN, Lynn Robert. An analysis of the relationship between speech performance and performance on written examinations of course content in a beginning college speech course as reflected in assigned grades.

#### University of Kentucky

GENTRY, Thomas Blythe. The dramatic functions of rhetorical devices in the plays of John Webster.

#### Louisiana State University

HENDERSON, Jerry Eugene. A history of the Ryman Auditorium in Nashville, Tennessee: 1892-1920.

#### University of Michigan

CAPANO, Richard Francis. Aural distortion and fatigue following exposure to sound.

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SHEIL, Richard F. A study in respiration with relation to somatotype.

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WILKIE, Richard William. A quantitative analysis of rhetorical invention in selected speeches delivered by Adolf Hitler in 1936.

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BROADHURST, Allan R. A thematic analysis and rhetorical study of the sermons of Dr. Norman Vincent Peale.

CHENEY, Lois Ann. A rhetorical study of selected speeches of Dr. Albert Schweitzer.

SCHNITZER, Maxine Marie. A rhetorical analysis of the speeches and speaking of Cassius Marcellus Clay.

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WELDEN, Terry Allen. The effect of message order in controversial material on attitudes and retention.

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GILMORE, Robert Karl. Theatrical elements in folk entertainment in the Missouri Ozarks 1885-1910.

LAMMERS, Raymond John. An analysis of a representative sample of plays written and used by the Chinese Communists for propagandistic purposes.

MANFULL, Helen Aungst. The new realism (a study of American dramatic realism from 1918-1929).

MANFULL, Lowell Lyndon. Drama as role-playing: a technique for analysis.

PATEREK, Josephine Durkee. A survey of costuming on the New York commercial stage: 1914-1934.

STINNETT, Ronald Floyd. A pentadic approach to rhetorical criticism.

WILLCOXON, III, John Weir. A translation and adaptation of Plautus' *Amphitruo*: with introductory essays, analyzing the Plautine text and its production and tracing the adaptations made of the play in French and English.

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#### University of Missouri

HIGDON, Barbara Joan. The role of preaching in the early Latter Day Saint Church 1830-1846.

VERDERBER, Rudolph Francis. The rhetoric of Charles Fillmore.

#### New York University

KENNEDY, James Scott. A study of the teacher-education aspects of speech in Negro colleges of America.

LONDON, Norman Theodore. An investigation of professional attitudes toward a first-course requirement in speech in American colleges.

MANDELBAUM, Bernard. A comparative analysis of the symbolic structures of selected dramatic renditions of the "Myth of the Hero".

MIRANNE, Joseph Jules. An investigation of the nature of short story adaptation in dramatic presentations for the Broadway theater from 1930 to 1960.

#### Northwestern University

BAKER, Roberta Hardy. A study of high fashion in the United States as an expression of major social and artistic trends from 1870 to 1900.

CANTER, Gerald J. An investigation of the speech characteristics of a group of patients with Parkinson's disease.

CONNORS, Joseph M. Catholic homiletic theory in historical perspective.

DICKINSON, Donald H. Problems of religion and myth in modern drama: 1914-1950.

DRESSER, William Rogers. Studies of the effects of "satisfactory" and "unsatisfactory" evidence in a speech of advocacy.

DUNS, Donald Frederick. A study of the relationship between dogmatism and speech behavior.

FABER, Warren Herman. A critical rhetorical study of the effect of Horace Bushnell's theory of language upon his theory of homiletics and his practice of preaching.

GOUSSEFF, James William. The staging of prologues in Tudor and Stuart plays.

HARRISON, Robert Joseph. Audiological manifestations of Ménière's disease.

HAWKINS, Robert B. An investigation of the relationships between audience wants and values and those expressed by New Deal and conservative spokesmen, 1934-36.



HIGGINBOTHAM, Dorothy C. A study of the speech of kindergarten, first, and second grade children in audience situations with particular attention to maturation and learning as evidenced in content, form, and delivery.

JOSAL, Wendell J. A semiotic approach to the aesthetic problem of the duality of stage design as a spatial and temporal art.

KERIKAS, Emanuel John. Current status of speech education in the public secondary schools of the intermountain states.

LOESCH, Katharine T. Prosodic patterns in the poetry of Dylan Thomas.

LYNN, George Edward. Influence of compression amplification on the perception of speech by the hearing impaired.

MAYER, David. English life in London pantomimes, 1806-1836.

NEYHUS, Arthur Irvin. The personality of socially well adjusted adult deaf as revealed by projective tests.

NICHOLSON, Catherine. The chorus as a ritual element in Greek tragedy.

PERRY, Lloyd M. Trends and emphases in the philosophy, materials, and methodology of American Protestant homiletical education as established by a study of selected trade and textbooks published between 1834 and 1954.

PIERCE, Bruce R. Nasal resonance differences resulting from speech appliance modifications in cleft palate adults.

POLLOCK, Wallace Stanley. The rhetorical theory of William G. T. Shedd.

YODER, Jess. A critical study of the debate between the Reformed and the Anabaptists, held at Frankenthal, Germany, in 1571.

ZIEGELMUELLER, George William. A study of the speaking of conservatives in opposition to the New Deal.

#### Ohio University

ALPINER, Jerome Gerald. Relationships between speech intelligibility and alterations in the frequency spectrum of speech noise masking.

BRANSON, Virginia Marie. An investigation of the possible existence of a "better" ear in normal hearing young adults.

HODGSON, William R. A comparative study of the effects of white noise, speech noise, and complex noise on the intelligibility of speech.

POST, Robert Melvin. A rhetorical criticism of the speeches delivered by Charles Stewart Parnell during his 1880 American tour.

#### The Ohio State University

BUELL, Stephen David. The history and development of WSAZ-TV, Channel 3, Huntington, West Virginia.

CASAMBRE, Alejandro J. The effects of certain variables in informative speaking on listener comprehension.

CASMIR, Fred Lutz. Hitler: a study in persuasion.

DANFORD, William Kelly. Selection and scoring of music for all musical cues in the comedies of Shakespeare.

GIBSON, James William. Direct and indirect attitude scale measurements of positive and negative argumentative communications.

HAST, Malcolm Howard. The role of subglottic air pressure and neural stimulation in phonation.

KLEE, Bruce Brightman. An analysis of production schedules in professional theatres in New York City from 1750 to 1950.

LEWIS, Ruth Bartlett. Angelina Grimké Weld, reformer.

PENNYBACKER, John Howard. Analysis of the reaction of residents of Baton Rouge to a series of television editorials.

RIPLEY, II, Joseph Marion. The practices and policies regarding broadcasts of opinions about controversial issues by radio and television stations in the United States.

SCHWARTZ, Martin Frederick. An investigation of thresholds of identification for vowels as a function of their duration.

SILVER, Reuben. A history of the Karamu theatre of Karamu House, 1915-1960.

WATZULIK, Richard Matthew. A history of the Theatre in Hungary to 1900.

WICKMAN, Richard Carl. An evaluation of the employment of panoramic scenery in the nineteenth-century Theatre.

#### University of Oregon

BARRETT, George Harold. The rhetorical theory and practice of Harvey W. Scott.

GROVER, David H. Debaters and dynamiters: the rhetoric of the Haywood Trial.

#### The Pennsylvania State University

BRILHART, John Kinter. An exploratory study of relationships between the evaluating process and associated behaviors of participants in six study-discussion groups.

BRUNGARD, Maude Olive. Effect of consistency of articulation of [r] and [s] on gains made with and without therapy.

DOODY, Agnes Grace. Words and deeds: an analysis of Jawaharlal Nehru's non-alignment policy in the Cold War, 1947-1953.

GERSTMAN, Hubert Louis. Relationships between motivation as measured by the MPT and progress in speech therapy.

HASPIEL, George Sidney. Picture identification test of discrimination for speech.

RANK, Vernon Elwood. Martin Van Buren's political speaking in his rise to political power.

#### University of Pittsburgh

BYERS, Vincent W. Two methods of measuring recovery following short duration fatigue.

CRAIG, William Newton. Effects of preschool training on the development of reading and lipreading skills of deaf children.

HOPKINSON, Norma Trozzo. Effects of binaural interaction upon the perception of temporally distorted speech.

KATZ, Jack. The effect of low-level stimulation in differentiating middle ear pathology.

LUTZ, Kenneth Russel. An investigation of the relationship of relative habitual levels of speech to measures of nasal voice quality, articulation, and intelligibility of speakers with cleft palate.

SCHILL, Herman Allan. An objective approach to the measurement of tolerance for pure tones.

TEZZA, Joseph Samuel. The effects of listening training on audio-lingual learning.

#### Purdue University

BURK, Kenneth Winfield. Biographic, interest, and personality characteristics of Purdue speech and hearing graduates.

DENISON, Ronald Harry. A rhetorical analysis of speeches by Segregationists in the deep south.

DREXLER, Hazel Gassmann. Temporal variables in conditioned GSR audiometry.

PENNER, Jonathan Gunther. Public speaking in the health reform movement in the United States (1863-1943).

PETRIE, JR., Charles Robert. An experimental evaluation of two methods for improving listening comprehension abilities.

RINGEL, Robert Lewis. Some effects of tactile and auditory alterations on speech output.

SAMOVAR, Larry Allen. Ambiguity and unequivocation in the 1960 Presidential campaign debate speeches.

SCHEELE, Henry Zaegel. A rhetorical analysis of the political speaking of Charles A. Halleck of Indiana.

SMITH, Frances Scott. Discrimination abilities related to functional articulation defects in children.

TOMPKINS, Phillip Knox. An analysis of communication between headquarters and selected units of a national labor union.

WILLIAMS, William George Gunn. EEG variables in children associated with auditory stimuli.

#### St. Louis University

SKELLY, Madeleine. Theatre impact on audience values.



## University of Southern California

ADAMS, Richard Greenleaf. A descriptive study of dramatic dialogue in six plays for children by the application of formulas for readability.

BROIDA, Helen. An empirical study of sex-role identification and sex-role preference in a selected group of stuttering male children.

GERBER, Sanford Edwin. An experimental study of factors influencing the perception of auditory flutter.

MILLER, Wayne Lowell. A critical analysis of the speaking career of Bishop G. Bromley Oxnam.

WALLACE, Robert Dawson. An analytical-historical study of the factors contributing to the success of Mark Twain as an oral interpreter.

WILLIAMS, Frederick Dowell. An experimental application of the semantic differential and "cloze" procedure as measurement techniques in listening comprehension.

## Southern Illinois University

BERGER, Kenneth W. A electromyographic investigation of respiratory muscle activity during varied vocal attack.

DANDENEAU, Richard Joseph. A rhetorical invention of conservatism: an analysis of the assumptions of contemporary conservative thought.

HUFFORD, Roger Alden. The place of ambiguity in political speaking.

## Stanford University

CLIFFORD, Dorothy. Time concepts in the plays of J. B. Priestley.

CURRIE, Rolf Hector. The stylization of the dramatic television image.

LEHRER, Robert Kafka. Social awareness in the folk plays of Carl Zuckmayer, 1925-31.

ROSEN, Jack. Phoneme identification in sensorineural deafness.

## Syracuse University

JORDAN, Herbert N. An investigation of the validity and reliability of the Luscher-Zwislocki test of loudness recruitment.

SHEPHERD, David Charles. A comparison of the efficiency of modified galvanic skin response audiometry with that of traditional galvanic skin response and traditional pure-tone audiometry in the measurement of auditory responses of subjects with normal hearing, perceptively impaired hearing and with functional hearing disorders.

## University of Utah

PETELER, Patricia Marjorie. The social and symbolic drama of the English-language theatre.

## University of Washington

MARSH, Patrick O. An empirical study of the effects of two types of conflict-arousing arguments upon retention and attitude change.

WITKIN, Belle Ruth. An analysis of some dimensions of phonetic ability.

## Wayne State University

ANGELOCCI, Angelo A. A comparative study of vowel formants of deaf and normal-hearing eleven- to fourteen year old boys.

ELLIOTT, Russell Edward. The speech factor in management.

HANSON, Marvin Laverne. A study of velopharyngeal competency in children with repaired cleft palates.

TAYLOR, Richard Duane. Pitch-equality perception as a function of frequency, reception channel, and localized sensory-neural hearing loss.

## Western Reserve University

WEISER, John Conrad. A rhetorical criticism of Philander Chase, first bishop of the Episcopal Diocese of Ohio, 1818-1831.

## The University of Wisconsin

CASEBIER, Georgia Gabrielle. An analysis of audience reaction to filmed samples of stuttering speech.

CHWOROWSKY, Carol Ruth. Status and trends of speech personnel in the medical setting.

COVELLI, Eugene Francis. James Milton O'Neill—pioneer in speech education.

DYGOSKI, Louise Annie. The journals and letters of John Wesley on preaching.

GILMORE, Stuart Irby. A study of the social and vocational acceptability of esophageal speakers compared to normal speakers as rated by members of business and professional groups.

MILLER, Alfred Louis. The applicability of the Irwin-Hervey articulation analysis as a test of speech discrimination.

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REYNOLDS, Elwin Carl. A practical approach to theatrical business management in the college and university theatre.

WRAY, Judith Edworthy. Theories and methods of representative contemporary poets as readers of their own poetry.

## Yale University

BROCKINGTON, John. A critical analysis of the plays of Lillian Hellman.

OGDEN, III, Dunbar Hunt. Costume and character on the medieval religious stage.

SCHROEDER, Neil Rolf. *As You Like It* in the English theatre 1740-1955.

ZUCKERMAN, Albert Jack. Shakespeare's playwriting techniques: a dramaturgic comparison of *Hamlet* with its so-called bad quarto.

## ZOOLOGY

## Agricultural and Mechanical College of Texas

DIXON, James R. The systematics and zoogeography of the North and Central American lizards of the genus *Phyllodactylus*.

GRAHAM, Owen Hugh. The use of animal systemic insecticides to control the common cattle grub *Hypoderma lineatum* (de Villers).

PAREKH, Chandra Kant. The effect of chronic Co<sup>60</sup> gamma irradiation on the quantity of the nucleic acids in the testis of the albino rat.

## University of Arizona

EGGE, Alfred Severin. Physiological changes in the adult white leghorn hen influenced by diencephalic lesions.

MILES, Charles David. Regeneration and lesions in pulmonate gastropods.

TREMOR, John W. The critical thermal maximum of the iguanid lizard *Urosaurus Ornatus*.

## University of British Columbia

KREBS, Charles Joseph. The lemming cycle at Baker Lake, N.W.T., during 1959-61.

MAGNUSON, John Joseph. An analysis of aggressive behavior, growth, and competition for food and space in Medaka (*Oryzias latipes*)-Pisces, Cyprinodontidae.

## Brown University

CASTON, Jessie Douglas. The appearance and accumulation of catecholamines during embryogenesis in *Rana pipiens*.

## University of California, Berkeley

BANKS, Richard Charles. Geographic variation of the white-crowned sparrow, *Zonotrichia leucophrys*.

BREAKEY, Donald Ray. Age structure and reproduction of feral house mouse populations near San Francisco Bay, California.

BURNS, John McLauren. Evolution in skipper butterflies in the genus *Erynnis*.

COGSWELL, Howard Lyman. Territory size in three species of chaparral birds in relation to vegetation density and structure.



- DIRKSEN, Ellen Roter. Studies on cytaster formation in artificially activated sea urchin eggs.
- EISENBERG, John Frederick. Studies on the social behavior of heteromyid rodents.
- HAGADORN, Irvine Rey. Neurosecretion and the secretory phenomena in neurons of the Leech, *Theromyzon rude*.
- HARRIS, Patricia Jean. The fine structure of the mitotic apparatus in dividing sea urchin blastomeres.
- HUMPHREYS, Walter James. Electron microscopy of eggs and embryos of *Mytilus edulis*.
- JOHNSON, Ned Keith. Biosystematics of sibling species of flycatchers in the *Empidonax hammondi-wrightii-griseus* complex.
- MAHER, William Joseph. The ecology of the pomarine, parasitic, and long-tailed jaegers in Northern Alaska.
- MARSH, Michael P. Food as a factor regulating the numbers of the California vole, *Microtus californicus*.
- NANDI, Jean Brandt-Erichsen. The structure of the interrenal gland of teleost fishes and the nature of its secretory products.
- SCHAEFER, Charles Herbert. The life history, development, and distribution of the Monterey Pine Cone Beetle, *Conophthorus radiatae Hopkins* (Coleoptera: Scolytidae).
- WAINWRIGHT, Stephen Andrew. The organization of the skeleton of coral, *Pocillopora damicornis* (L.).
- University of California, Los Angeles
- ARAI, Mary Needler. The taxonomy, morphology, and neuromuscular physiology of two Southern Californian *Ceriantharia*.
- BARBER, Mary Lee Sparling. Characterization of adult muscle proteins.
- ENRIGHT, James Thomas. Distribution, population dynamics and behavior of a sand-beach Crustacean, *Synchelidium* SP.
- GILDEN, Raymond Victor. Specificity of the anamnestic response.
- HEATH, James Edward. Temperature regulation and diurnal activity in normal lizards.
- HOGUE, Charles Leonard. A definition and classification of the tribe stiriini based on a study of its internal natural relationships (*Lepidoptera, Noctuidae*).
- KARAKASHIAN, Marlene Wiesner. The rhythm in *Paramecium Aurelia*, Syngen 3, and its significance for a genetic analysis of circadian rhythmicity.
- KARAKASHIAN, Stephan John. Some aspects of the growth and specificity of the heredity endosymbiosis of *Paramecium Bursaria*.
- LEITNER, Phillip. Temperature regulation and hibernation in the California Mastiff Bat, *Eumops perotis*.
- MELTZER, Joseph. Galvanic stress potentials of plastically deformed metals.
- MOORE, Joseph. In vitro culture of the gregarine parasites of tenebrio molitor.
- MYRBERG, JR., Arthur August. An analysis of the preferential care of eggs and young by adult brooding cichlid fishes.
- RATZLAFF, Kermit Omer. Factors involved in rhodopsin regeneration in the retina of the bullfrog.
- RINALDI, Robert Arthur. An analysis of protoplasmic movement in *Allogromia Laticollaris* and *Amoeba proteus*.
- WILSON, Barry William. Controlled growth and the regulation of the metabolism of the flagellates *Astasia* and *Euglena*.
- WITOVSKY, Paul. An ontogenetic study of retinal function in the domestic chicken.
- The Catholic University of America
- RENE, Anthony A. The effect of various agents on the growth and radiation sensitivity of Strain L.
- SHEA, I.H.M., Sister Mary Gerald. The development and distribution of neurosecretory cells in the cerebral ganglion of *Lumbricus terrestris*.
- SIMPSON, Margaret. Reproduction of the polychaete *Glycera dibranchiata* at Solomons, Maryland.
- University of Chicago
- BOND, J. Arthur. Aspects of dispersion in two species of flour beetles.
- DUNHAM, Philip B. The adaptation of *Tetrahymena* to a high NaCl environment.
- HUMPHREYS, Susie Hunt. An electron microscopic study of the fine structure and function of the stomach cell of a rotifer.
- HUMPHREYS, II, Tom Daniel. The mechanism of sponge cell adhesion.
- POHLO, JR., Ross Henry. The adaptive significance of shell morphology of burrowing pelecypods.
- ROBERTS, Paul. Interchromosomal effects and the relationship between crossing over and nondisjunction.
- SHEPHARD, David Carleton. An approach to the study of cytodifferentiation in Melanophores.
- Clemson Agricultural College
- HAYS, Sidney Brooks. A comparative study of certain biological phenomena of a parathion treated and a susceptible strain of the plum curculio, *Conotrachelus nuphar* (Herbst).
- PASS, Bobby Clifton. Biology and control of the spittlebug, *Prosapia bicincta* (Say), in coastal Bermuda grass.
- University of Colorado
- EARLE, Alvin Mathews. The middle ear of the sand lizards.
- GRANT, JR., Harold Johnson. A revision of the subfamily *Batrachideinae* (Orthoptera: Tetrigidae).
- LOVE, David Stewart. Isolation and characterization of L-Myosin from chick embryo muscle.
- SCHMITZ, Eugene Herman. Visceral anatomy of *Gammarus lacustris lacustris* Sars (Crustacea: Amphipoda).
- STONE, JR., Herman. The effects of darkness and of low temperature on the estrous cycle of *Peromyscus maniculatus osgoodi*.
- VAN HORN, Donald Howard. Variations in populations of the grasshopper *Melanoplus dodgei* (Thomas) from the front range of Colorado.
- Colorado State University
- HOFFMAN, Dale Arthur. The concentration and accumulation of radioactive phosphorus by an aquatic food chain.
- Columbia University
- ESPER, Hildegard. Ribonucleic acid in haploid and diploid embryos of *Bana pipiens*.
- GARCIA, Alfredo M. DNA in leucocytes and related cells in mammals.
- JACOBS, Lewis L. The effect of 2,4 dinitrophenol on survival, mutation and photoreactivation of ultraviolet irradiated *E. coli* B/r.
- MOURAD, Abd El-Khalek M. Effects of irradiation on genetically coadapted systems.
- SILAGI, Selma. A genetical and embryological study of partial complementation between lethal alleles at the T locus of the house mouse.
- STRICKBERGER, Monroe W. Evolution of fitness in experimental populations of *Drosophila pseudoobscura*.
- TAYLOR, Harriett E. A study of the lag phase in the growth of yeast cultures. [Reprinted from *Revue Canadienne de Biologie*, 13: 144-169.].
- WALLACE, Robin A. Enzymatic patterns in the developing frog embryo. [Reprinted from *Developmental Biology*, 3:486-515, 1961.].
- The University of Connecticut
- McCAMEY, JR., B. Franklin. Survival and age structure in a sample population of the black-capped chickadee.
- RAJ, P. J. Sanjeeva. Morphological and biological studies of two species of piscicolid leeches.
- Cornell University
- AXTELL, Richard Charles. *Macrochelidae* (Acarina: Mesotigmata) inhabiting manure and their effect on house fly production.
- BENOIT, Paul. Comparative morphology of some North American *Chrysobothris* larvae (Coleoptera: Buprestidae).



BROCKWAY, Barbara Fink. Ethological studies of the budgerigar, (*Melopsittacus undulatus*).

CALORA, Feliciano Banaag. A revision of the species of the *Leucania*-complex occurring in the Philippine Islands (Lepidoptera, Noctuidae, Hadeninae).

DAS, Krushna Mohan. Experimental pantothenic acid deficiency in dogs, a pathologic-anatomic study.

DAVIS, Donald Ray. A revision of the family Psychidae of the western hemisphere (Lepidoptera, Tineoidea).

FORSYTHE, JR., Howard Yost. Studies on the seasonal abundance and spatial pattern of the pea aphid, *Macrosiphum pisi* (Harris), in alfalfa and alfalfa-red clover fields in central New York.

FRANCOIS, Donald Davis. A revision of the Australian crayfish genus *Euastacus* (Decapoda, Parastacidae).

MILLER, Helen Carter. The behavior of *Lepomis gibbosus* (Linnaeus) with notes on the behavior of other species of *Lepomis*, *Elassoma evergladei*, and *Enneacanthus gloriosus*.

MILLER, Rudolph John. Studies on the behavior, morphology, and ecology of three North American cyprinid fishes (Pisces, Cyprinidae).

NAGEL, William Payne. The population dynamics of an experimental parasite-host system, with *Nasonia vitripennis* (Walk.) (Pteromalidae, Hymenoptera) as the parasite and *Musca domestica* L. (Muscidae, Diptera) as the host.

NOWOSIELSKI, Jozef. Studies on circadian rhythm of the house cricket, *Gryllus domesticus* L.

PAYNE, Roger Searle. The acoustical location of prey by the barn owl (*Tyto alba*).

POINAR, JR., George Orlo. Studies on the Mermithidae (Nematoda), with special reference to a new species parasitizing the alfalfa weevil.

STREAMS, Frederick Arthur. Studies on the life history and sex ratio of the harlequin bug, *Murgantia histrionica* (Hahn), with reference to the significance of the sex ratio.

VANDENBERG, Jerome Philip. The role of the gonadotropic hormone in protein synthesis in *Rhodnius prolixus* (Hemiptera).

WHITAKER, JR., John Ogden. A study of the meadow jumping mouse, *Zapus hudsonius* (Zimmerman) in the Ithaca east quadrangle, New York.

#### Duke University

MOHAMMAD, Murad-Baba. Larval distribution of three species of Balanomorpha in relation to some chemico-physical factors.

#### The University of Florida

ARATA, Andrew Anthony. The anatomy of the male reproductive tract of the cotton rat (*Sigmodon hispidus*) and comparisons with other muroid genera.

DJAFAR, Mohamad Ishak. The influence of dietary protein levels upon host and parasite in young goats infected with *Haemonchus contortus*.

HIRTH, Harold Frederick. The ecology of two lizards on a tropical beach.

McCRONE, John David. A study of the *Geolycosa pikei* complex in the southeastern United States.

MOUNT, Robert Hughes. The natural history of the red-tailed skink, *Eumeces egregius* Baird.

ROSSMAN, Douglas Athon. A taxonomic study of the sauritus group of the garter-snakes, genus *Thamnophis* Fitzinger.

WILDER, JR., Cleo Duke. Dominance-subordination relationships in the southeastern five-lined skink, *Eumeces inexpectatus* Taylor.

#### Fordham University

ANTONY, C. D. A comparative morphological and evolutionary study of Genitalia in *Battus priamus* (Linnaeus).

#### University of Georgia

MOSS, Donovan Dean. Dissolved-oxygen requirements of three species of fish.

#### University of Illinois

BRANDON, Ronald Arthur. A systematic study of the salamander genus *Gyrinophilus*.

CUNNINGHAM, Hugh Benson. A phylogenetic study of the leafhopper genus *Empoasca* (Homoptera, Cicadellidae).

DE LA TORRE, Luis. The evolution, variation, and systematics of the neotropical bats of the genus *Sturnira*.

LIEM, Karel Frederik. The comparative osteology and phylogeny of the Anabantoidae, with a proposal of a new order Luciocephaliformes (Teleostei, pisces).

McALPINE, James Francis. The evolution of the *Lonchaeidae* (Diptera).

NAYAR, Jai Krishen. Physiological investigations on the host-specificity of the silkworm, *Bombyx mori* (Linnaeus), with additional investigations on the Mexican bean beetle, *Epilachna varivestis* (Muls.), and the larvae of the catalpa sphinx, *Ceratomia catalpae* (Boisduval).

NORMANDIN, Diane Kilbourne. Regeneration of hydra from the enzymatically isolated endoderm.

PAUSCH, Robert Dale. The nutrition of the larva of the oriental rat flea *Xenopsylla cheopis* (Rothschild) with additional notes on its bionomics.

ROBERTS, Reginald Joseph. Availability of dieldrin to adult *Blissus leucopterus* (Say) and larval *Cyclocephala immaculata* (Oliv.) in treated sand, loam and muck soils.

WAITZ, Jay Allen. Studies on the structure and physiology of the cestode, *Hydatigera taeniaeformis* Batsch, 1786.

#### Indiana University

BARNETT, Audrey Jane. Cytology, serology, and genetics of *Paramecium Multimicronucleum* Sygen 2; Determination and inheritance of the mating type cycle.

EADES, David Cluthe. A study of *Ceuthophilus Guttulosus* (Orthoptera, Gryllacrididae, Rhaphidophorinae) with special reference to geographic variation and subspeciation.

HOLLAND, James Philip. An investigation of the protein-bound iodine in the fowl.

SCHATZLEIN, Frank Charles. I. The nature of the biological action of 2-amino-5-nitrothiazole on the reproductive system of mammals and birds. II. The *in vivo* inactivation of avian thyrotropin by extracts of *Lithospermum ruderales*.

WIDMAYER, Dorothea Jane. Studies on two mutations of kappa in stock 51, Syngen 4, of *Paramecium aurelia*.

WOOLDRIDGE, David Paul. Studies on the basis of variation of the color pattern of the *Tropisternus mexicanus* (Castelnau) complex (Coleoptera: Hydrophilidae).

#### State University of Iowa

BEAUDOIN, Richard Lampron. The effect of altering the intestinal flora on *Hymenolepis diminuta* populations in rats.

BOVBJERG, Ann McCurdy. An analysis of anuran skin development.

DIVELBISS, James Edward. Structural complexity of the brown locus in *Drosophila melanogaster* meigen.

MATHERS, Carol Kenneth. A study of North American species of the genus *Haemopsis* (Annelida, Hirudinea, Hirudidae) with a description of a new species, *Haemopsis latero-maculatum*.

REYNOLDS, Wynetka Ann King. The effects of thyroxine upon the initial formation of the lateral motor column and differentiation of motor neurons in *Rana pipiens*.

SHAW, Ross Franklin. A comparative study of serological and physiological characteristics in strains of *Tetrahymena vorax*.

SWARTZENDRUBER, Donald Clair. The fine structure of the malpighian tubules and rectal gland of the bloodsucking bug *Rhodnius prolixus* Stål.

#### Iowa State University of Science and Technology

ALLENSPACH, Allan LeRoy. Experimental analysis of closure and reopening of the esophagus in the developing chick.



BECTION, Abner James. Improving meridic diets for laboratory rearing of the European corn borer.

HOOPES, David Townsend. Ecological distribution of spawning sockeye salmon in three lateral streams, Brooks Lake, Alaska.

JARVIS, James Lawrence. Interrelation of factors influencing populations of the European corn borer in Boone County, Iowa.

JOHNSON, Richard Emanuel. Comparative activation of organophosphorus insecticides by liver microsomes.

KISCHER, Clayton Ward. Fine structure of the developing down feather.

MILLER, Richard Lloyd. Seasonal distribution of the potato leafhopper, *Empoasca fabae* (Harris), among *Solanum* clones.

SISSON, Donald Victor. Combining biological data from European corn borer experiments over locations and years.

SMALL, Lawrence Frederick. Some aspects of plankton population dynamics in Clear Lake, Iowa.

WALKER, John Robert. Evaluation of control of European corn borer, *Ostrinia nubilalis* (Hübner), by X-ray induced sterility.

#### University of Kansas

CROSS, JR., Earle A. The generic relationships of the family *Pyemotidae* (Acarina: Trombidiformes).

FREDRICKSON, Richard William. The internal morphology of the Acarina with special reference to the Opilioacaridae.

HOLMES, Edward Bruce. Variation in the muscles and nerves of the leg in two genera of grouse (*Tympanuchus* and *Pedioecetes*).

JONES, JR., J. Knox. Distribution and taxonomy of mammals of Nebraska.

KLIEWER, John Wallace. Development, hatching, and longevity of *Aedes Aegypti* eggs (Culicidae: Diptera).

OLIVER, JR., James Henry. Studies of karyotypes and sex determination with notes on reproductive behavior in *Dermanyssidae* (Acarina: Mesostigmata).

RETTENMEYER, Carl William. Arthropods associated with neotropical army ants with a review of the behavior of these ants (Arthropoda; Formicidae; Dorylinae).

ROHLF, F. James. A numerical taxonomic study of the genus *Aedes* (Diptera: Culicidae) with emphasis on the congruence of larval and adult classifications.

#### Kansas State University

BOREN, Roger Boatner. Some factors which influence honey bee, *Apis mellifera* L., activity on alfalfa flowers.

BUCKLEY, Burton Roy. Biology of the corn earworm, *Heliothis zea* (Boddie), on grain sorghum.

HILL, JR., Alfred. Laboratory studies with systemic insecticides for control of the Oriental rat flea, *Xenopsylla cheops* (Ritsch), on white rats.

PAULSON, Carlton Wayne. Distribution of sulfur-35 in some components of tissues and organs of *Ascaridia galli* (Nematoda) following exposure to sulfur-35 labeled carbon disulfide.

STEMLEY, Percy Green. The life history and behavior of an internal feeding stored grain insect, *Rhizopertha dominica* (FAB), by use of X-ray.

WHITNEY, Wendell Keith. Toxicities, diffusion, and interactions of grain fumigants measured by bioassay and gas chromatography.

#### Louisiana State University

ALLISON, Ray. Monogenic trematodes of Alabama fresh-water fishes.

MAYER, Thomas C. An experimental analysis and description of the melanocytes in the leg of PET mice.

QAZI, Mahmood H. Bioassay and histochemical evaluation of pituitary prolactin in estrus, gestation and pregnancy: hamster.

RUSSELL, Stephen. Mims. A distributional study of the birds of British Honduras.

#### University of Louisville

MINCKLEY, Wendell L. Studies of the ecology of a spring stream: Doe Run, Meade County, Kentucky.

#### University of Maryland

HOLMAN, Leta Jane. Reproductive biology of *Trombicula (Eutrombicula) splendens* Ewing, 1913, with emphasis on the role of the spermatophore.

PICCILOLO, Anthony Ronald. Sexual and nest discrimination by species of *Colisa* and *Trichogaster*.

POLLARD, JR., William Otis. Chondrodystrophy in chicks following the parenteral administration of hemin and certain non-metalloporphyrins.

VROMAN, Hugh Egmont. A comparison between homeotherms and poikilotherms of the influence of temperature on the activity of succinic dehydrogenase.

#### University of Massachusetts

KELTON, Diane Elizabeth. A study of lethal alleles of dilute in the house mouse.

#### McGill University

NIAZI, Iqbal Ahmad. Histological studies in regeneration of tails in anuran tadpoles and ammocoetes.

PREISER, Franz Anton. Study in development of comparative laboratory testing methods of nematocides.

#### University of Miami

PROVENZANO, JR., Anthony J. A study of larval development in some genera of pagurid crabs.

#### University of Michigan

BACHMANN, Roger Werner. An experimental study of the freshwater zinc cycle.

DAZO, Bonifacio Capili. The morphology and natural history of *Pleurocera acuta* rafinesque and *Goniobasis livescens* (Menke). (Mollusca: Gastropoda: Prosobranchia).

DINGLE, Richard Douglas Hugh. Correcting behavior in boxelder bugs.

ERIKSEN, Clyde Hedman. Respiration and substrate as factors influencing the distribution of the burrowing Mayflies *Ephemera simulans* and *Hexagenia limbata*.

GUNDERSON, Harvey Lorraine. An eight and one-half year study of the Red-backed Vole (*Clethrionomys gapperi* Vigors) at Cedar Creek Forest, Anoka and Isanti Counties, Minnesota.

HALL, Donald James. An experimental approach to the dynamics of a natural population of *Daphnia galeata mendotae*.

HITZEMAN, Sister Jean Walter. The ontogeny of enzymes in the Leydig cells of the testes of the mouse.

KERR, John Polk. Grouping behavior and related phenomena in some oriental cyprinid fishes. (*Brachydanio* and *Danio*).

LASIEWSKI, Robert Constanti. Physiological responses to temperature in hummingbirds.

LEGAULT, Roméo Omer. The early embryology of teleosts with special reference to *Percina caprodes*, *Brachydanio rerio* and *Osmerus mordax*.

MAIN, Robert Andrew. The life history and food relations of *Epischura lacustris* Forbes (Copepoda: Calanoida).

OWEN, Denis Frank. Geographical variation and polymorphism in the screech owl, *Otus asio*, in North America.

OWEN, Jennifer. The behavior of a social wasp *Polistes fuscatus* (Vespidae) at the nest, with special reference to differences between individuals.

TOWNES, Mary Doris McLean. The pH relations of contraction in glycerinated stalks of *Vorticella*.

UZZELL, JR., Thomas Marshall. Morphology and biology of the salamanders of the *Ambystoma jeffersonianum* complex.

WECKER, Stanley Charles. The role of early experience in habitat selection by the Prairie Deer Mouse, *Peromyscus maniculatus bairdi*.

WIEGERT, Richard George. The effects of periodic destruction of habitat on the energetics of the Meadow Spittlebug, *Philaenus spumarius* L.



## Michigan State University

BERNARD, Richard Fernand. Field and laboratory studies on the effects of DDT on birds.

BUSHNELL, JR., John Horace. The Bryozoa of Michigan—Taxonomy, ecology, and distribution, (Part I.). Growth, mortality, and longevity of *Plumatella repens*, (Part II).

McCLANAHAN, Robert Joseph. The role of insects in the epidemiology of cucumber mosaic virus.

SHIVERS, Carl Alex. Immunobiological studies of the species-specificity of egg jellies of the frog.

WACASEY, Jervis Winn. An ecological study on two sympatric species of salamanders, *Ambystoma maculatum* and *Ambystoma jeffersonianum*, in southern Michigan.

WAGNER, John Alexander. Cross and microscopic anatomy of the digestive and urinary systems and histology of the reproductive system of nutria, *Myocastor coypus bonariensis* (Geoffroy).

YOON, Sei-Byung. Studies on the effects of x and y chromosomes on protein synthesis and spermatozoal development in *Drosophila melanogaster*.

## University of Minnesota

HARMS, Clarence Eugene. The development and cultivation of the acanthocephalan, *Octospirocerus macilentis* Van Cleane, 1919.

ISAAK, Daniel. The ecological life history of the fathead minnow, *Pimephales promelas* (Rafinesque).

NORDLIE, Frank Gerald. Some effects of thermal acclimation on peptic digestive capacity in the black bullhead *Ictalurus melas* (Raf.).

SCHARFF, Donald Kenneth. Ecology of the migratory grasshopper (*Melanoplus bilituratus*) on Montana grasslands.

SCHMIEGE, Donald Charles. The biology and host-parasite relationships of a neoplectanid nematode parasitic on some forest insect pests.

## University of Missouri

LINTON, Joe Robert. The effect of thyroxine on acetylcholinesterase and sodium flux in the channel catfish.

## Montana State College

ANDERSON, JR., Norman Lewis. Grasshopper-vegetation relationships on Montana grasslands.

## The University of Nebraska

WEBB, III, Morgan Chofield. The biology of the bumblebees of a limited area in eastern Nebraska.

## New York University

AVERETT, James Wesley. The effects of nicotine on weight increment, activity, food intake and water intake in weaning albino rats.

SCHREIBMAN, Martin P. Studies of the pituitary gland of *Xiphophorus maculatus* (the platyfish).

VANKIN, G. Lawrence. Analysis of the tail darkening effect in hypophysectomized urodele larvae.

## The University of North Carolina

BLAKE, John Wilson. Preliminary characterization of oyster metabolites attractive to the predatory gastropod *Urosalpinx cinerea*.

HARRIS, Thomas Mason. Germinal localization and morphogenesis of the midgut derivatives in the salamander *Ambystoma punctatum* (*Ambystoma maculatum*).

LUTZ, Paul Eugene. Studies on aspects of the ecology and physiology of tetraneura cynosura (say) as related to seasonal regulation (Odonata: Cordulinae).

## North Carolina State College

MAHMOOD, Syed Hamid. A study of the Typhlocybina leafhopper genera of the Oriental region (Homoptera: Cicadellidae).

TURNIPSEED, Samuel Guy. Some factors influencing oviposition and incubation of eggs of the tobacco wireworm, *Conoderus vespertinae* (F.).

## The Ohio State University

DILLERY, Dean George. Food habits of Savannah and grasshopper sparrows in relation to foods available.

EMBREE, Douglas Gordon. Studies on the population dynamics of the winter moth *Operophtera brumata* (L.). (Lepidoptera: Geometridae) in Nova Scotia.

GRAFF, George Portsmouth. Conservation understandings in the intermediate grades.

KING, Charles Crawford. Effects of herbicides on honey bees and nectar secretion.

SHIELDS, Robert James. An experimental study of the host-parasite glycogen relationships of *Haematoloechus medioplexus* Stafford, 1902 (Trematoda: Plagiorchiidae).

STEVENS, Vernon Cecil. A study of certain endocrine and physiological aspects of reproduction in the cottontail rabbit (*Sylvilagus floridanus mearnsii*).

WELKER, George William. Helminth parasites of the common grackle *Quiscalus quiscula versicolor* Vieillot in Indiana.

## The University of Oklahoma

CROWDER, Walter Eugene. Effect of homotransplants of thyroid and pituitary on the metabolic rate of the laboratory rat.

PROPHET, Carl Wright. Ecology and reproduction of five species of Anostraca in Oklahoma.

## Oklahoma State University

COPPOCK, JR., Stanley. The grasshoppers of Oklahoma (Orthoptera: Acrididae).

WARD, Claud Max. The relative resistance of fifteen species of fishes to petroleum refinery effluent and the suitability of the species as test animals.

## Oregon State University

ARIAS, Robert Ortiz. The *in vitro* hydroxylation of naphthalene-1-C 14 housefly microsomes.

FORD, James Marshall. The chromosomes of northwest pulmonate snails.

HARGETT, Louie Thomas. Visual and olfactory responses of the horn fly, *Haematobia irritans* Linn.

NEWSTEAD, James Duncan. Epithelial ultrastructure in the vas deferens of the sow bug, *Porcellio scaber* (Latreille).

RADINOVSKY, Sydney. Biological, developmental and behavioral studies of *Leiodynerus krameri* (Can.) (Acarina: Uropodidae).

WATLING, Harold. A combined study of the growth of the grayling (*Thymallus arcticus*) and the development of its olfactory apparatus.

## University of Pennsylvania

BYERS, Thomas Jones. Studies of nucleocytoplasmic protein migration in amoebae.

DiBERARDINO, Marie Antoinette. Chromosome studies of normal embryonic and neoplastic cells of *Rana pipiens* (Schreber).

HILLMAN, Nina Williams. Factors concerned with the early cephalogenesis of the chick embryo.

KOLMAN, Wilfred Aaron. The selective significance of the sex ratio with some observations on sex ratios and mortality in human populations.

LINDSAY, JR., William Garmer. Oxygen uptake by spermatozoa of the sand dollar, cock and bee.

WILSON, Darcy Benoit. Studies in transplantation immunology.

## University of Pittsburgh

MASER, Morton D. Characterization of earthworm cuticle collagen.

MOHN, Nancy. Cold resistance of naturally occurring karyotypes in *Drosophila persimilis* from the High Sierra Nevada of California.

ROUGH, Gaylord Earl. The effects of temperature and light intensity on the growth, and meristic, and morphometric characters as related to utilization of yolk in the pro-larva of the common white sucker.

ROUNDS, Harry Donald. A functional division in the nervous system of the cockroach, *Blaberus giganteus* (L.).

SWEET, JR., Edward Eugene. Incidence of sterility and its relation to viability in a laboratory population of *Drosophila melanogaster*.



## Princeton University

CRONLY-DILLON, John Ronald. Touch and pressure in the frog.

## Purdue University

BOWERS, JR., William Sigmond. The relationships between hormonal activity and sugar metabolism in *Protoparce sexta* (Johannsen) and *Blaberus craniifer* (Burmeister).

BREADY, John Kerr. Physiological investigations on the eastern subterranean termite, *Reticulitermes flavipes* (Kollar).

HAZELTINE, William Emery. Comparative morphology of the genital segments of the bombinae.

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